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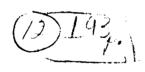
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TRANSLATION SURVEY

Number 69.



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CONSOLIDATED TRANSLATION SURVEY

FOR SEPTEMBER 1963

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CONSOLIDATED TRANSLATION SURVEY

An author index to items in this issue is appended.

This Survey is prepared monthly by Foreign Documents Division, CIA, from lists received through cooperation of US government agencies and includes translations of such agencies, private industry, universities, research institutions, and commercial translation organizations. It is a compilation of foreign documentary projects, completed or started during the month preceding this publication.

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Some of the above details may be unavailable on projects listed "in process." New projects in process will be listed only once, their subsequent listing being made when they are reported completed. Projects in process, i.e., not completed as of the date of this Survey, are noted with an asterisk (*), and when available, a project-control or "in-process" number is noted in parentheses following the title.

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Department of Army Assistant Chief of Staff, Intelligence Intelligence Documents Branch Washington 25, DC

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Dept of Commerce Office of Technical Services Washington 25, DC

ACSIL

Admiralty Center for Scientific Information and Liasion Queen Anne's Mansions St James Park London, SW 1, England

AEC - Atomic Energy Commission (see Department of Commerce)

AECL

Atomic Energy of Canada, Ltd. Chalk River Canada

AERE, Harwell

The Librarian
AERE, Ministry of Supply
Marwell, Didcot, Birks
England

AF

Department of Air Force Collection and Dissemination Assistant Chief of Staff, Intelligence ATTN: AFCIN 1B3 Washington 25, DC AID - Aerospace Information Division (see AF)

AIP

American Institute of Physics 335 East 45th Street New York 17, New York

Amer Math Soc

American Mathematical Society 190 Hope Street Providence 6, Rhode Island

API

Academic Press, Inc. 111 Fifth Avenue New York 3, New York

APL - Applied Physics Laboratory (see Navy)

Army Map Service (see ACSI)

BISI

British Iron and Steel Institute 4 Grosvenor Gardens London, SW 1, England

CB

Consultants Bureau, Inc. 227 West 17th Street New York 11, New York

CEGB

Central Electricity Generating Board Friars House 157-168, Blackfriars Road London, S.E.1, England

CRL

Central Research Laboratories, Research Division Broken Hill Proprietary Co, Ltd, Shortland, 2N, New South Wales Australia

Crosscurrents Press

Crosscurrents Press 156 5th Ave New York 10, New York Commonwealth Scientific and Industrial Research Organization 314 Albert Street
East Melbourne, C 2, Victoria
Australia

DDC

Defense Documentation Center TISIA-1 Arlington Hall Station Arlington 12, Virginia

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Department of Commerce Office of Technical Services Washington 25, DC

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Department of Interior Library Washington 25, DC

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Department of State Division of Library and Reference Service 132 State Annex 1 Washington, DC

DSIR

Department of Scientific and Industrial Research Records Section Charles House 5-11 Regent Street London, SW 1, England

Emmanuel Coll Res Lang Ctr

Emmanuel College Research Translation Center The Fenway Boston, Massachusetts

FSTC

U.S. Army Foreign Science and Technology Center Arlington Hall Station Washington 25, DC FTD - Foreign Technology Division (see AF)

GB

Association of Special Libraries and Information Bureau 3 Belgrave Square London SW 1, England

Geochem Soc

Prof E. Wm. Heinrich Mineralogical Laboratory University of Michigan Ann Arbor, Michigan

Harcourt

Harcourt, Brace and Co., Inc 750 Third Ave New York 17, New York

HB

Henry Brutcher Technical Translation PO Box 157 Altadena, California

HO - Hydrographics Office (see Navy)

ID - Intelligence Document (see ACSI)

ISA

Instrument Society of America 313 Sixth Avenue Pittsburgh 22, Pensylvania

JPRS

Joint Publications Research Service Building T-30 Ohio Drive & Independence Avenue, SW Washington 25, D.C.

Maritime Adm

Maritime Administration Office Services GAO, 5th and G Streets, NW Washington, DC National Aeronautics and Space Administration 1512 H Street, NW Washington 25, DC

Natl Bu Stand

National Bureau of Standards ATTN: Dr Henry Birnbaum Room 314, South Building Washington, DC

Navy

Department of Navy Office of Naval Intelligence Washington 25, DC

NEL

National Engineering Laboratories East Kilbride, Glasgow, Scotland

NIII

Mational Institutes of Health Translating Section, Library Building 10, Room 11N112 Bethesda 14, Maryland

NLL

National Lending Library for Science and Technology Boston Spa, Yorkshire, England

NMS - Navy Medical School (see Navy)

NRC/C

National Research Council, Canada The Library Sussex Drive Ottawa 2, Canada

NRL - Naval Research Laboratories (see Navy)

NZDIA

Department of Internal Affairs Translation Service Wellington, New Zealand

ONI - Office of Naval Intelligence (see Navy)

Ministry of Aviation TIL.1(a), First Avenue House, High Holborn, London, W.C.1., England

OTS

Office of Technical Services Department of Commerce Washington 25, DC

(Also available through Department of Commerce Field Offices)

Pat Off

Patent Office Scientific Library 14th and Constitution Avenue, NW Washington, DC

PS

Primary Sources
11 Bleecker Street
New York 12, New York

RAE - (see TIL, Ministry of Aviation)

TIL - Technical Information Library

Ministry of Aviation TIL 1(b) Leysdown Road Mottingham London SE9, England

USDA

Department of Agriculture Foreign Agricultural Service Room 5086 14th and Independence Avenue, NW Washington 25, DC

USRL - US Research Laboratory (see Navy)

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Weather Bur - See Department of Commerce

319th MI Bn - 319th Military Intelligence Battalion (see ACSI)

519th MI Bn - 519th Military Intelligence Battalion (see ACSI)

525th MI Gp - 525th Military Intelligence Group (see ACSI)

PROJECTS REPORTED

FOR SEPTEMBER 1963

USSR

Economic

Prospects of Developing the Power Engineering Base of Central Kazakhstan, In Connection With the Planned Deepening of the Irtysh, by V. A. Kiktenko, S. Ya. Mayzel'.

RUSSIAN, bk, Problema Vodoobezpechniya Tsentral'nogo Kazakhstana, 1960, pp 301-313.

*ACSI I-3337-A ID 2246286

Project for the Complex Development of the Irtysh River, by G. A. Pretro. RUSSIAN, bk, Problema Vodoobezpecheniya Tsentral'nogo Kazakhstana, 1960, pp 314-327.

*ACSI I-3337-B ID 2246286

Selected Articles From the Russian Book Stroitel'stvo Kommunizma v SSSR i Razvitiye Sel'skogo Khzyaystva, 1962 - 1963.

Vol I, pp 85-219, 296-358, 367-408. The Building of Communism in the USSR and the Development of Agriculture, by N. S. Khrushchev, JPRS 20896

Vol II, pp 5-22, 40-46, 66-70, 103-127, 156-162, 315-321, 359-362, 394-396, 418-436, 496-501. The Building of Communism in the USSR and the Development of Agriculture, by N. S. Khrushchev,

JPRS 20897

Vol IV, pp 106-122, 137-150, 162-186, 193-378. The Building of Communism in the USSR and the Development of Agriculture, by N. S. Khrushchev, 188 pp.

JPRS 20898

Vol V, pp 253-352, 418-441;

Vol VI, pp 55-76.

JPRS 20899

The Building of Communism in the USSR and the Development of Agriculture, by N. S. Khrushchev, 138 pp.

Vol VII, pp 126-286.

JPRS 20900

The Building of Communism in the USSR and the Development of Agriculture, by N. S. Khrushchev,

Industrial Krasnoyarskiy Kray Today, by B. Gorizontov, A. Zubkov, 15 pp. RUSSIAN, bk, V Krayu Bol'shogo Budushchego, Moscow, 1961, pp 37-50, 178-187.

Statistical Handbook. (DC-8883) RUSSIAN, bk, Vneshnyaya Torgovlya Soyuza SSR za 1962 God, Statisticheskiy Obzor, Moscow, 1963, pp 1-235.

*JPRS

Balakovo Chemical Combine, by Ya. Filipchenko, 7 pp. RUSSIAN, per, Agitator, No 12, 1963, pp 52-54.

JPRS 20770

Conference on Introduction of Advanced Methods in Centralized and Interurban Shipments of Freight by Motor Vehicle, 9 pp.
RUSSIAN, per, Avtomobil'nyy Transport, No 6, 1963, pp 10-13.

JPRS 21108

Analysis of the Utilization of the Production Capacities, by V. Obronov, 5 pp. RUSSIAN, per, Bukhgalterskiy Uchet, No 7, 1963, pp 1-4.

JPRS 20935

Experience in Weekly Calculation and Analysis of Product Cost Price, by B. Tokarev, 6 pp. RUSSIAN, per, Bukhgalterskiy Uchet, No 7, 1903, pp 44-48.

JPRS 20764

Selected Articles From the Russian Periodical Byul Tekh Ekon Informat.

No 5, 1963. X-Ray Apparatus for Industrial Flaw Detection, by Ye. S. Baran, V. I. Galaktionov, 7 pp, (pp 24-28).

JPRS 20780

Comprehensive Techniques at Machine Building Enterprises of the Nizhne-Volzhskiy Sovnarkhoz, by Yu. I. Il'yinov, 6 pp, (pp 69-72).

JPRS 20853

No 6, 1963. Experience in Using Rotary-Excavation Installations in the Open-Strip Pits of the Kursk Magnetic Anomaly, by L. A. Medvedev, 8 pp. (pp 3-7).

JPRS 21066

Production of Fluxed Pellets From the Ores of the Sokolovsko-Sarbay Combine, by D. G. Khokhlov, 5 pp, (pp 8-10).

JPRS 21066

Moskovskiy Sovnarkhoz Reports on Industrial Technology for 1962, by I. V. Gellert, 5 pp, (pp 80-82).

JPRS 21032

Leningradskiy Sovnarkhoz Effects Savings Through Automation and Mechanization, by V. A. Ivanov, 6 pp, (pp 82-85).

Heat Recovery in Open-Hearth Furnaces and Soaking Pits of Ferrous Metallurgy, by I. I. Bruk, 10 pp. RUSSIAN, per, Byul Tekh Ekon Informatsii.

Tyazhelaya Prom. No 5, 1963, pp 36-42.

JPRS 20933

Selected Articles From the Russian Newspaper Ekon Gazeta.

8 Jun 1963. Fixed Assets and Working Capital in Motor-Vehicle Transport, 7 pp, (pp 2-4).

JPRS 20901

Productivity of a Driver's Labor in Motor-Vehicle Transport, 5 pp, (pp 4-6).

Cost of Freight Shipments in Motor-Vehicle Transport, 6 pp, (pp 6, 7).

An Analysis of the Operation of Motor Pools, 5 pp, (pp 8, 9).

How to Determine the Economic Efficiency of New Equipment in Motor-Vehicle Transport 5 pp, (pp 9, 10).

15 Jun 1963, p 14. Coordinating the Work of Various Forms of Transport, by B. Beshchev, 12 pp. JPRS 20901

29 Jun 1963. Streamlining and Growth of Economic Activity in the Severo-Kavkazskiy Sovnarkhoz, by V. Ivanov, 6 pp, (p 10).

JPRS 20853

Large-Scale Chemical Industry in the Ukraine, by G. Vilesov, 6 pp, (p 11).

JPRS 20770

A Powerful Production Base for the Urals, by Z. Kuchukbayev, 6 pp, (p 12).

JPRS 20770

Spare Parts--Field and Farm Equipment, 5 pp, (p 42).

JPRS 20862

6 Jul 1963.

JPRS 20770

Planning, Preportions, and Economic Effectiveness of Tire Production, by A. Shakh, P. Al'man, 5 pp, (pp 13, 14).

The Testing of Tires, by N. Yakovchuk, 5 pp, (pp 13, 14).

Selected Articles From the Russian Newspaper Ekon Gazeta. (Contd)

13 Jul 1963. We Must Increase the Economy and Speed Up Electric Power Construction Rates, 6 pp, (pp 13, 14).	JPRS	21076
Old Ills at New Construction Projects, by N. Stragnov, 14 pp, (p 14).	JPRS	21076
By the Gross Index, 9 pp, (p 18).	JPRS	20998
20 Jul 1963. A Creative Alliance Between Chemistry, Industry and Agriculture, by S. Vol'fkovich, 13 pp, (pp 13, 14).	JPRS	20990
The Economic Significance of Specializing Capital Repair, by P. Bunin, 7 pp, (p 18).	JPRS	20998
Progress of Leningrad Industrial Combines, by M. Kobrin, 12 pp, (pp 19, 20).	JPRS	20832
27 Jul 1963. Machine Building An Important Branch, by L. Kostandov, 6 pp, (p 9).	JPRS	21007
Problems in Automation and Instrument-Making, by M. Rakovskiy, 11 pp, (p 11).	JPRS	20833
3 Aug 1963. Summation of Railroading Achievements in Final Stage of Seven-Year Plan, by N. Gundobin, 6 pp, (p 4).	JPRS	21108
A Permanent Labor Force Siberia and the Far East, by G. Balakin, 6 pp, (p 45).	JPRS	21110
10 Aug 1963. Rational Division of Production into Regions, by I. Belousov, 9 pp, (p 3).	JPRS	21023
Electric Power Lines, 5 pp, (p 20).	JPRS	21076
31 Aug 1963, pp 14, 15. USSR Accuses China of Distorting News of Soviet Economic Achievements, 12 pp, (p 14, 15).	JPRS	21094
The Distribution of Specialized Sovkhozes and Their Efficiency, by A. Vikhlyayev, M. Eyzriker, 13 pp. RUSSIAN, per, Ekon Sel'skogo Khoz, No 6, 1963, pp 51-59.	JPRS	20751

Plan of the Yermakovskaya GRES With a Capacity of 2,400,000. KW, by I. L. Tsinovoy, 22 pp. RUSSIAN, per, Elektricheskiye Stantsii, No 6, 1963, pp 2-11.	JPRS 20894
The Technical Level of Soviet Electric Power Industry Must be Raised, 9 pp. RUSSIAN, per. Energetik, No 5, 1963, pp 1-5.	JPRS 20894
In the State Industrial Committee on Electric Power and Electrification USSR. Construction and Operation News, 6 pp. RUSSIAN, per, Gidrotekh Stroitel, No 6, 1963, p 41.	JPRS 20894
Operational Features of the AN-24 Turboprop Passenger Aircraft, by V. Glazkov, 7 pp. RUSSIAN, per, Grazhdanskaya Aviatsiya, No 5,	VDDG acces
1963, pp 10, 11. Selected Articles From the Russian Newspaper Gudok.	JPRS 20901
13 Jul 1963, p 3. Improve the Freight Handling Facilities on the Railroads, 14 pp.	JPRS 20879
19 Jul 1963, pp 1, 2. Great Upsurge in Soviet Economy Places Greater Demands on Railroad Transport, 6 pp.	JPRS 21108
26 Jul 1963, p 3. Amalgamation of Three Caucasian Republic Rail-roads Results in Greater Efficiency, 5 pp.	JPRS 21108
1 Aug 1963, pp 1, 3. Liski Conference of Railroaders Stresses Use of Combined Measures to Improve Utilization of Locomotives, 12 pp.	JPRS 21108
Development of the Basic Chemical Industry Following the May 1958 Plenum of the CC CPSU, by V. V. Krasnushkin, 18 pp.	1000 0101
RUSSIAN, per, Khim Prom, No 5, 1963, pp 1-7.	JPRS 21013
Chemical Industry in the Moscow Region, by I. I. Karatayev, 11 pp. RUSSIAN, per, Khim Prom, No 5, 1963, pp 7-11.	JPRS 21013
Recent Developments in Chemical Fiber Technology by A. N. Volkov, 7 pp.	
RUSSIAN, per, Khim Volokno, No 3, 1963, pp 5-8.	JPRS 20781

New Horizons for Large-Scale Chemical Industry, by V. Titov, 8 pp. RUSSIAN, per, Kommunist Vooruzhennykh Sil, No 12, Jul 1963, pp 43-47. JPRS 20990 Analysis of Technological and Economic Indices in Gear Wheel Stamping With Teeth Forming, by V. A. Krokha, O. V. Protopopov, et al, 7 pp. RUSSIAN, per, Kuznechnoshtampovovhnoye Proizvodstvo, JPRS 21102 No 7, 1963, pp 31-34. Expand the Production of Steel in Elektrostal, by V. Solosin, 5 pp. RUSSIAN, np, Leninskoye Znamya, 17 Jul 1963, p 2. JPRS 21066 Organization of a Central Design Bureau for Excavator and Crane Construction is a Necessary and Urgent Problem, by A. S. Rebrov, 6 pp. RUSSIAN, per, Mekhanizatsiya Stroitel'stva, No 7, 1963, JPRS 21159 pp 18-20. The Solution of Large Problems is the Goal of the Scientific and Planning Institutes, 9 pp. RUSSIAN, per, Molochnaya Prom, No 6, 1963, pp 1-4. JPRS 21083 The Performance of the Dairy Industry 1962, by V. Peshkov, 5 pp. RUSSIAN, per, Molochnaya Prom, No 6, 1963, pp 41, 42. JPRS 21083 Successful Formation of Objectives of the Seven-Year Plan, 14 pp. RUSSIAN, np, Moskov Pravda, 17 Jul 1963, pp 1, 2. JPRS 21032 Economic Training at the Uzbek Metallurgical Plant Imeni Lenin, by V. Kudryakov, 6 pp. RUSSIAN, per, Narod Khoz Kazakh, No 6, 1963, pp 71-74. JPRS 21066 Selected Articles From the Russian Periodical

Narod Khoz Uzbek.

No 5, 1963. JPRS 20781 Present Status and Prospective Development of the Chemical Industry in Central Asia, by I. Anisimkin, 6 pp, (pp 10-13).

Construction of the Novoi Chemical Combine Hindered by Indifference of Sovnarkhoz Officials, by N. Kovynev, 8 pp, (pp 14-18).

Selected Articles From the Russian Periodical Narod Khoz Uzbek. (Contd)

No 6, 1963. For the Over-All Development of the Electric Power Industry, by I. Oranskiy, 8 pp, (pp 12-17).	JPRS 21076
In the Interests of the Development of Cotton Growing, 6 pp, (pp 30-33).	JPRS 20751
New Prices for Cotton Are A Great Incentive for Agricultural Production, by M. Chekasin, 12 pp, (pp 34-41).	JPRS 20751
Cybernetics and the Chemical Industry, by V. Kostelyanskiy, Ye. Kurdyuk, 5 pp. RUSSIAN, per, Nauka i Zhyttya, No 1, 1963, pp 39-41.	JPRS 20333
Refractory Production in the Soviet Union, 6 pp. RUSSIAN, per, Ogneupory, No 2, 1962, pp 49-52.	JPRS 20856
Lagging Construction of the Ammonium Phosphate Shop at the Dzhambul Superphosphate Plant, by S. Mal'tsev, M. Sarayev, et al, 5 pp. RUSSIAN, per, Partiynaya Zhizn' Kazakhstana, No 6, 1963, pp 55-57.	JPRS 20935
Selected Articles From the Russian Periodical Plan Khoz, No 7, 1963.	
USSR Lumber Industry Reserves, by A. Zheludkov, 12 pp, (pp 29-36).	JPRS 20751
Use Reserves of Moscow Enterprises More Fully, by V. Pavlov, 7 pp, (pp 54-57).	JPRS 20919
Regional Party Organizations in the Campaign for Finding Reserves, by I. Drozd, 8 pp, (pp 58-62).	JPRS 20919
Utilize Equipment Fully in Machine Building, by A. Sidorov, 12 pp, (pp 53-69).	JPRS 20919
What Analysis Has Shown, by K. Kogan, 13 pp, (pp 70-75).	JPRS 20919
USSR Industrial Development, Reserves of Industrial Capacities in Ferrous Metallurgy Must Be Used, by D. Vetrinskiy, 9 pp, (pp 76-81).	JPRS 20889
Improvements in Economic Planning, by A. Vladimirov, 5 pp, (pp 94-96).	JPRS 20832

(60),000	
Mismanagement and Theft in Cold Storage Industry Exposed, 5 pp. RUSSIAN, np, Pravda, 6 Jul 1963.	JPRS 21083
New Centralized, Territorially-Intergrated Planning Aims at Correcting Situation in Kazakhstan, by B. Bratchenko, 6 pp. RUSSIAN, np, Pravda, 13 Aug 1963, p 2.	JPRS 20799
All Reserves in Cotton Growing Into Action, by S. Veselov, 10 pp. RUSSIAN, np, Pravda Vostoka, 5 Jul 1963.	JPRS 20751
Production of Boring Machines in Armenia, by S. Avanyan, 7 pp. RUSSIAN, per, Prom Armenii, No 5, 1963, pp 6-9.	JPRS 20831

Sulfate, by L. Kuchikyan, 9 pp. RUSSIAN, per, Prom Armenii, No 5, 1963, pp 27-30. JPRS 20989

Selected Articles From the Russian Periodical Prom Energet.

An Automatic Concentration Detector for Copper

No 6, 1963. Improvement Needed in Electrical Machine Performance, by L. S. Rodshteyn, 5 pp, (pp 11-13).

JPRS 20800

Performance Tests of Electrical Illumination Installations in Metallurgical Combine, by S. A. Sheydin, 6 pp, (pp 13-16).

JPRS 20801

Leading Off Converter Gases Without Burning, by S. M. Andon'yev, Yu. I. Tseluykov, et al, 10 pp, (pp 17-21).

JPRS 20801

No 7, 1963, pp 47, 48. New Industrial Television Equipment, 5 pp. JPRS 20989

Raising Productivity on the Moscow Railroad, by L. M. Shklyarenko, 8 pp. RUSSIAN, per, Put' i Puteyoye Khoz, No 5, 1963, pp 3-7.

JPRS 20901

Production at Zaporozhstal' Ingot Mold Shop Hampered by Incomplete Equipment, by V. Ivanov, A. Makerenko, et al, 7 pp. RUSSIAN, np, Rabochaya Gazeta, 14 May 1963.

The Performance of the Donetsk	Metallurgical	Plant,
by G. Zhitnik, et al, 5 pp.		
RUSSIAN, np, Rabochaya Gazeta,	18 Jul 1963.	

JPRS 21066

Current Progress in the Metallurgical Industry of the Ukraine, by I. Shevchenko, 5 pp. RUSSIAN, np, Rabochaya Gazeta, 21 Jul 1963.

JPRS 21066

Selected Articles From the Russian Periodical Rechnoy Transport.

No 1, 1961.	*ACSI I-3264
A. Three Years of Operation of the Novosibirsk	ID 2244427
Lock, by I. Romanov, (pp 33-35).	

B. Peculiarities of Navigation on the Ob' River Below the Novosibirsk Hydroelectric Power Plant, by B. Chernomordik, (pp 35-37).

C. Reconstruction of Navigation Installations in the Ob' Basin, by T. Belova, (pp 37, 38).

No 4, 1961, pp 39, 40. *ACSI 1-3265 Prospects for the Expansion of Dregging Operations of Waterways in the Northern Part of the Ob Valley, by N. Shnyagin.

ID 2244428

No 5, 1963. A. An Optimum Sized Train for the Transportation of Timber in the Irtysh Basin, by E. Mukhin.

*ACS1 I-3317 ID 2246277

B. Experiences in the Operation of the Ust'-Kamenogorsk High-Head, Shaft-Type Lock, by I. Ivashentsev, (pp 27, 28).

No 6, 1963, pp 5, 6. Increasing the Profitability of Passenger Trans-

portation in River Shipping, by M. Makeyev, 5 pp.

JPRS 21108

New Sinking Grab-Bucket, 6 pp. RUSSIAN, per, Shakhtnoye Stroitel'stvo, No 7, 1963, pp 31, 32.

Selected Articles From the Russian Periodical Sotsialisticheskiy Trud.

No 5, 1963, pp 65-70. Planning of Notor Transport With the Aid of Electronic Computers, by B. Geronimus, X. Sorokina, 7 pp.	JPRS 2	20922
No 6, 1963. Engineer-Organizers Needed by Industry, by I. Razumov, 12 pp, (pp 61-68).	JPRS :	21110
Improving Methods of Determining Labor Input of Production, by V. Rozhkova, 10 pp, (pp 99-104).		
No 7, 1963. Specialization as an Important Prerequisite for Economizing on Social Labor, by N. Ruzumov, 13 pp, (pp 71-78).	JPRS :	21110
First Steps Towards Model Production Management, by M. Korobov, 9 pp, (pp 79-84).	JPRS :	20916
Perfect the Administrative Apparatus and Reduce its Cost, by N. Kuzin, 14 pp, (pp 90-99).	JPRS :	21110
Efficient Use of Wage Systems in the Chemical Industry, by M. Naumenko, 6 pp, (pp 127-130).	JPRS :	21110
Material Incentives to Spur the Development of New Clothing and Footwear, by N. Shelyastin, 33 pp, (pp 133-140).	JPRS :	21110
Pledges of the Tallin Machine Building Plant, 9 pp. RUSSIAN, np, Sovet Estoniya, 7 Aug 1963, p 2.	JPRS :	21159
Reorganization of Sovkhoz-Planning System to Ensure Greater Centralization and Clearer Delineation of Re- sponsibilities, by A. A. Pushkin, I. Ye. Kras'ko, 15 pp. RUSSIAN, per, Sovet Gosudarstvo i Pravo, No 7, 1963, pp 99-106.	JPRS :	20799
Business Machine Plant in Vil'nyus, by I. Radzyavichuyus,		
5 pp. RUSSIAN, mp., Sovet Litva, 21 Jul 1963, p 3.	JPRS :	20989
For Further Increased Labor Productivity in Ferrous Metallurgy, 7 pp.		
RUSSIAN, per, <u>Stal</u> , No 7, 1963, pp 577-580.	JPRS :	20771

Inter-Branch Unification of Machinery--the Basic Path for Further Mechanization of Heavy and Labor-Consuming Tasks, by N. G. Dombrovskiy, 18 pp. RUSSIAN, per, Stroitel'nyye i Dorozhnyye Mashiny, No 7, Jul 1963, pp 1-7. JPRS 20877 Focus on the All-Round Mechanization of Constructing Cement-Concrete Roads, by A. A. Vasl'yev, 7 pp. RUSSIAN, per, Stroitel nyye i Doroznnyye Mashiny, JPRS 20877 No 7, Jul 1963, pp 7-9. Perspectives for Developing Machines for Construction of Cement-Concrete Road Surface:, by V. G. Klement'yev RUSSIAN, per, Stroitel'nyye i Dorozhnyye Mashiny, JPRS 20877 No 7, Jul 1963, pp 10-13. On Rules for the Electrical Equipment of Seagoing Vessels, by D. F. Pervukhin, 9 pp. RUSSIAN, per, Sudostroyeniye, No 5, 1963, pp 65, 66. JPRS 20901 Activities of the Scientific and Technical Society of the Shipbuilding Industry, by M. B. Zul', 5 pp. RUSSIAN, per, Sudostroyeniye, No 5, 1963, pp 67, 68. JPRS 20901 On the Introduction of the International System of Units in the USSR, by V. Korotkov, 9 pp. RUSSIAN, per, Sudostroyeniye, No 5, 1963, pp 70-72. JPRS 20901 Electric Bulbs With Diffuse Reflectors, by A. I. Chushkin, 6 pp. RUSSIAN, per, Svetotekhnika, No 7, 1963, pp 27-29. JPRS 20947 The Luch-2 Motion-Picture Projector for 8-MM Films, by V. D. Korovkin, 9 pp. RUSSIAN, per, Tekh Kino i Tele, No 6, 1963, pp 74-76. JPRS 20722 The Development of a Complex of Soil Cultivating Machines for Regions Suffering From Wind Erosion, by A. A. Plishkin, 6 pp. RUSSIAN, per, Traktory i Sel'Khozmashiny, No 7, JPRS 20823 1963, pp 22-24. Socialist Obligations of the Collectives of Building and Installation, Planning, and Scientific Research Organizations and Enterprises of Transport Construction for 1963, 7 pp. RUSSIAN, per, Transportnoye Stroitel'stvo, No 4, JPRS 20538 1963, pp 1-3. Little Chemistry Invades the Home, by P. Nazarov,

JPRS 20990

RUSSIAN, np, Vechernyaya Moskva, 11 Jul 1963, p 2.

USSR Economic (Contd)

Selected Articles From the Russian Periodical Voprosy Ekon.

No 6, 1963, pp 3-14. Economic Principles of the Over-All Electrification of the National Economy, by M. Vilenskiy, 17 pp. JPRS 20894

No 7, 1963. Profits and the Enterprise Fund, by N. Maslova, 8 pp, (pp 42-47). JPRS 21157

The Inter-Branch Balance and Planning of Capital Investments, by Ya. Kvasha, V. Krasovskiy, 14 pp, (pp 48-58).

Towards a Methodology of International Comparisons of Basic Economic Indicators, by S. Strumilin, 10 pp, (pp 110-115).

Selected Articles From the Russian Periodical Zheleznodorozhnuy Transport.

Voi XLIV, 1962.

Important Problems of Preparing the Grain Mass Transportation, by N. V. Marin, et al, (pp 33-37).

NRC/Ref. C-4224

Special Containers for Freight Transportation, by I. V. Shtefke, Yu. T. Kozlov, (pp 66-69).

NRC/Ref. C-4239

Improved Methods of Loading Vehicles, Machines, and Parts on Flatcars, by A. G. Kalishchuk, A. S. Avstreykh, (pp 76-78).

NRC/Ref. C-4217

No. 5, 1963 Railfoad Transport at a New Stage, 11 pp, (pp 3-7).

JPRS 20901

The Concentration of Loading Work and Tariffs, by Yu. N. Tikhonchuk, 10 pp, (pp 42-45).

No 6, 1963. Great Possibilities Exist for Raising Labor Productivity in USSR Locomotive Facilities, by A. I. Tishchenko, 13 pp, (pp 10-16).

JPRS 21108

New Rolling Stock Used on the Railroads of the USSR, 9 pp, (pp 53-56).

No 7, 1963. Coordinating the Operation of the Transport Facilities in a Consolidated Economic Region, by K. A. Trigengol'd, 11 pp, (pp 21-26).

JPRS 21108

Diesel Locomotives Used on the Railroads of the USSR, 10 pp, (pp 41-44).

Construction Industry in the Belorussian SSR, by D. F. Filimonov, 17 pp. BELORUSSIAN, np, Sovet Belorussiya, 29 Mar 1963, p 2.	JPRS 20286
Miscellaneous Articles on the Chemical Industry, 8 pp. BELORUSSIAN, per, Sovet Belorussiya, 21 Jul 1963, p 2.	JPRS 20990
Moscow Meeting of Departments of Inventions of the CEMA Countries, by Penko Penev, 6 pp. BULGARIAN, per, Ratsionalizatsiya i Standartizatsiya, Vol XIII, No 5, 1963, pp 3-5.	JPRS 21129
Let's Discuss Highway Transportation Problems, 5 pp. CZECH, per, Silnichi Doprava, No 11, 1962, pp 1, 2.	ACSI I-2164-A ID 2227648
Reflections Concerning the Lithuanian Bourgeoise, by Jonas Delsnys, 49 pp. LITHUANIAN, per, Svyturys, No 9-12, May, Jun 1962.	JPRS 20923
Ukraninan Poles'ye, by A. M. Marinich, 9 pp. UKRAINIAN, bk, Ukrains'ke Polissya, 1962, pp 141-157.	JPRS 20946
Possible Improvements in Metallurgy by Better Utilization of Fuel, by N. Kalita, N. Shapovalov, 7 pp. UKRAINIAN, per, Kommunist Ukrainy, No 6, 1963, pp 87-91.	JPRS 20822
Conference of Party Workers of the Ferrous Metallurgical Industry Held at Zaporozh'ye by Zh. Tkachenko, 8 pp. UKRAINIAN, np, Pravda Ukrainy, 25 May 1933, p 2.	JPRS 20756
Lagging Petrochemistry in the Ukraine, by G. Vilesov, V. Sklyar, 8 pp. UKRAINIAN, np, Pravda Ukrainy, 6 Jul 1963, p 2.	JPRS 20770
Automation for the Chemical Industry, by V. Gogir, 5 pp. UKRAINIAN, np, Pravda Ukrainy, 25 Jul 1963, p 2.	JPRS 20990

The Historic Mission of Communism, by I. Lemin, 8 pp. RUSSIAN, np, <u>Izvestiya</u> , 25 Jul 1963, p 2.	JPRS	20723
Selected Articles From the Russian Periodical Kommunist.		
No 10, 1963, pp 103-107. Soviet Interest in Latin America Continues: Kommunist Calls Alliance for Progress a New Form of Imperialist Expansion, by S. Mikhaylov, B. Rudenko, 5 pp.	JPRS	20477
No 11, 1963. Soviet Position Vis-A-Vis Peiping, 47 pp, (pp 3-36).	JPRS	20932
The Formulation of the Communist Way of Life, by V. Sinitsyn, 12 pp, (pp 67-75).		
USSR Praises Progress in Hungary, by I. Sirmai, 12 pp, (pp 100-109).		
Review of USSR Aid to Ceylon, by Vikremasingkhe, 13 pp, (pp 114-120).		
Two Viewpoints on the Future, by Ye. Ambarrsumov, 5 pp. RUSSIAN, np, Literaturnaya Gazeta, 3 Aug 1963, p 4.	JPRS	20930
Concrete Analysis of a Major Requirement of Leninism, by F. Burlatskiy, 7 pp. RUSSIAN, np, <u>Pravda</u> , 25 Jul 1963, pp 2, 3.	JPRS	20723
The International Communist Conflict, by A. Chernyayev, 9 pp. RUSSIAN, np, Pravda, 3 Aug 1963, pp 5, 6.	JPRS	20930
Pravda Tells What the USSR is Doing to Achieve Communism, by V. Stepanov, 10 pp. RUSSIAN, np, Pravda, 24 Aug 1963, pp 2, 3.	JPRS	21131
Progress of the World Revolutionary Process, by K. Zarodov, 9 pp. RUSSIAN, np, Sovet Rossiya, No 180, 1 Aug 1963, pp 2, 3.	JPRS	20930
Pre-March 1963 Election Speech by Brezhnev by Leonid II'ich Brezhnev, 12 pp. RUSSIAN, np, Vechernyaya Moskva, 27 Feb 1963, pp 1, 2.	JPRS	20861

Oath of Manifestation to the Party and the Soviet Union. CZECH, per, Rude Pravo, No 10, 1963, p 2.	*ACSI I-3308-B ID 2244442 525th MI Gp
Fantis Reiterates Akel Support of USSR, Cities Need for United Anti-Imperialist Front in Cyprus, 8 pp.	
GREEK, np, Kharavgi, 23 Jul 1963, pp 1, 4.	JPRS 21077
The Cultural Debate in the USSR: A Message to Soviet Artists From a Mexican Communist Painter, by David Alfaro Siqueiros, 7 pp. SPANISH, per, Siempre, 1963, pp 32-34.	JPRS 20329
Military	
Armored Personnel Carriers, by M. G. Red'kin, 14 pp. RUSSIAN, bk, Bronetransportery, 1961, pp 3-12, 52-53, 69-80, Encl No 2 to R-378-61, OARMA, Moscow.	ACSI I-2820 ID 2182916
Antitank Obstacles, by M. P. Pribyl'skiy. RUSSIAN, bk, <u>Protivotankovyye Prepyatstviya</u> , 1941, pp 1-79.	*ACSI I-3313 ID 2246274
Leninist Principles of Organization and Development of the Soviet Armed Forces, by H. Azovtsen, 14 pp. RUSSIAN, per, Kommunist Vooruzhennykh Sil, No 7, Apr 1963, pp 9-19.	JPRS 20842
CPSU Leadershipthe Prime Foundation for Soviet Military Development, by S. Baranov, Ye. Nikitin, 12 pp. RUSSIAN, per, Kommunist Vooruzhennykh Sil, No 8, Apr 1963, pp 17-25.	JPRS 20842
Theoretical and Methodological Foundation of Soviet Military Science, by D. Kazakov, 11 pp. RUSSIAN, per, Kommunist Vooruzhennykh Sil, No 10, May 1963, pp 7-15.	JPRS 20842
Interviews With Border Guards, 10 pp. RUSSIAN, np, Komsomol'skaya Pravda, 28 May 1963, p 4.	JPRS 21105
The Role of Science in Solving the Problems of Naval Warfare, by N. P. V'yunenko, 9 pp. RUSSIAN, per, Morskoy Sbornik, No 6, 1963, pp 19-26.	JPRS 20958
Border Guard Service, by P. Zyryanov, RUSSIAN, np, Pravda, 28 May 1963, p 3.	JPRS 21105

USSR	
Military	(Contd)

Forty-Fifth Anniversary of Border Troops, by G. Aleynikov, 5 pp. RUSSIAN, np, Sovet Patriot, 26 May 1963, pp 1, 2.	JPRS 21105
Collective Means of Protection, by L. Gorshkov, 9 pp. RUSSIAN, per, Voyennyye Znaniya, No 4, 1963, pp 36-38.	ACSI I-2703 ID 2235128
Air Transport of Military Equipment, 5 pp. CZECH, per, Kridla Vlasti, Vol II, No 3, 1963, pp. 76-78.	ACSI I-2706 ID 2235131

Geographic

The Ust'Kanenogrosk Dam on the Irtysh River.	*ACSI I-3263
RUSSIAN, bk, Geologiya i Plotiny, 1959, pp 151-165.	ID 2244426

Sociological

Sociological	
History of the Great Patriotic War of the Soviet	
Union 1941-1945.	
RUSSIAN, bk, Istoriya Velikoy Otechestvennoy Voyny	
Sovetskogo Soyuza 1941-1945, Vol V, 1963, pp 7-16,	*ACSI I-2826-E
25-123, 138-220, 246-331, 459-484, 546-583.	ID 2237290
The Lenin University for the Millions, 6 pp.	
RUSSIAN, np, Pravda, 29 Aug 1963, p 2.	JPRS 20903
On the Role of Expert Criminology Establishments	
in Crime Prevention, by D. Potashnik, 10 pp.	
RUSSIAN, per, Vest Moskovskogo Univ, No 2, 1963,	
pp 44-51.	JPRS 20625
Second Vetice a Resmentical Council as View by a	

USSR Biographic

Yakov Gilelevich Panovko, by G. P. Strakhov, 12 pp. RUSSIAN, per, Iz Ak Nauk, Latviyskoy SSR, No 3, 1963, pp 102-106.

JPRS 20870

Anton Nikiforovich Sevchenko, G. P. Gurinovich, 7 pp. BELORUSSIAN, per, Vestsi Ak Navuk Belaruskay SSR Ser Fiz Tekh Nauk, No 1, 1963, pp 124-128.

JPRS 20870

Aleksandr Vasil'yevich Fursenko, by V. K. Golubtsov, 6 pp.
BELORUSSIAN, per, Vestsi Ak Navuk Belaruskay SSR.
Ser Fiz Tekh Navuk, No 1, 1963, pp 130-133.

EASTERN EUROPE

Economic

The Year 1963 -- A Preparatory Year for Planning Organizing, and Executing the Important Tasks of the Five-Year Plan, 11 pp. ALBANIAN, per, Rruga e Partise, Vol X, No 6, 1963, JPRS 20911 pp 3-11. Regulation on the Structure and Functions of the Administration for People's Councils, Local Industry and Community Activity, 6 pp. BULGARIAN, per, Durzhaven Vestnik, No 57, 1963, JPRS 20783 pp 5, 6. Achievements in Prospecting for Petroleum and Gas in Bulgaria, by Anton Atanasov, 8 pp. JPRS 20939 BULGARIAN, per, Geografiya, No 8, 1962, pp 1-4. Toward a Higher Level of Organization and Methodology of Planning, 10 pp. BULGARIAN, per, Planovo Stopanstvo i Statistika, Vol XVIII, No 6, 1963, pp 3-9. JPRS 20783 Unified Production Enterprises -- A New Progressive Form in Production Administration, by Koly Rusev, 13 pp. BULGARIAN, per, <u>Planovo Stopanstvo i Statistika</u>, Vol XVIII, No 7, 1963, pp 3-14. JPRS 21078 The Role of the Chief Accountant of the Socialist Economy, by Dimitar Popov, 6 pp. BULGARIAN, per, Schetovodstvo i Kontrol, No 3, 1963, JPRS 20783 pp 3-9. Ten Years of Strain and Hybrid Testing and Recognition, by Todor Mitkov, 17 pp. BULGARIAN, per, Selskostopanska Nauka, Vol II(8), No 1, 1963, pp 44-50. JPRS 20785 The Problems of Bringing Cooperative Ownership Closer to General Public Ownership, by Vasil Mishev, 22 pp. BULGARIAN, per, Selskostopanska Nauka, Vol II(8), JPRS 20785 No 1, 1963, pp 106-116. The Prospects of a Long-Range Solution of the Grain Problem, by P. T. Popov, 29 pp. BULGARIAN, per, Selskostopanska Nauka, Vol II(VIII), JPRS 20999 No 3, 4, 1963, pp 285-298.

Construction of the Nitrogen Fertilizer Plant in Stara Zagora, by P. Petkov, 11 pp. BULGARIAN, per, Stroitelstvo, No 3, May-Jun 1963, pp 1-4.	JPRS 21003
Complete Utilization of the Principle of Material Interest, by Georgi Kostov, 11 pp. BULGARIAN, per, Trud i Tseni, No 4, 1963, pp 28-37.	JPRS 20783
Further Improvement in the Organization of Wages in Industry, by Simeon Radev, 12 pp. BULGARIAN, per, Trud i Tseni, No 4, 1963, pp 37-47.	JPRS 20783
Necessary Improvements in the Forming and Distributing of the Enterprise Fund, by Emil Khristov, 8 pp. BULGARIAN, per, Trud i Tseni, No 4, 1963, pp 47-53.	JPRS 20783
The Aid of the Socialist Countries in the General Development of Bulgaria, by Stefan Vasiliev, 6 pp. BULGARIAN, per, Vunshna Turgoviya, No 7, 1963,	JPFS 20766
The Export List of Bulgarian Chemicals is Constantly Expanding, by Georgi Lazarov, 5 pp.	
BULGARIAN, per, Vunshna Turgoviya, No 7, 1963, pp 7-9. Linking on the Yugoslav Electric Power Networks of Neighboring Countries, by Vekoslav Korosec, 21 pp.	JPRS 20766
CROATIAN, per, <u>Elektroprivreda</u> , Vol XVI, No 3, 4, 1963, pp 133-146. The 1963 Social Plans of the Republics, by	JPRS 21003
Milentije Pesakovic, 20 pp. CROATIAN, per, <u>Finansije</u> , No 3, 4, 1963, pp 145-158. Financing of Economic Investments From Central Funds	JPRS 21063
From the Point of View of the Federal Social Plan for 1963, by Teodor Starcevic, 14 pp. CROATIAN, per, Finansije, No 3, 4, 1963, pp 166-177.	JPRS 21063
Selected Articles From the Croatian Periodical Jugoslovenski Pregled. No 4, 1963.	
The System and Organization of Yugoslav Foreign Trade, 18 pp, (pp 176-181). Specialized Training of Workers in Industrial and	JPRS 20906
Mining Enterprises, 9 pp, (pp 189-192).	JPRS 20937
No 5, 1963, pp 223-227. The Customs System, 15 pp.	JPRS 20906
No 6, 1963, pp 267-272. Development of Power Industry in Yugoslavia, 17 pp.	JPRS 21003

———— —	
Yugoslavia in International Trade, by Dusan Dragosava, 22 pp. CROATIAN, per, Nova Trgovina, No 5, 1963, pp 191-198.	JPRS 20906
The New Instruction on the Principles Governing Distribution of New Revenues, by Roman Albreht, 14 pp. CROATIAN, per, Socijalna Politika, No 5, 1963, pp 479-490.	JPRS 21128
Slow Development of JRD's in the Central Slovak KRAJ, by Jan Lalik, 11 pp. CZECH, np, Hospodardke Noviny, Vol VII, No 28, 12 Jul 1963, p 8.	JPRS 20816
Manpower Problem in Agriculture, by Jaroslava Glaserova, 9 pp.	
CZECH, np, Hospodarske Noviny, No 33, 16 Aug 1963, p 6.	JPRS 21158
Double-Shift Operation in Livestock Raising, by Zdenek Nevoranek, 9 pp. CZECH, per, Mezinarodni Zemedelsky Casopis, Vol VII, No 2, 1963, pp 73-76.	JPRS 20999
Exchange of Experiences in the Field of Agricultural Standardization, 7 pp. CZECH, per, Normalizace, Vol XI, No 6, 1963, pp 186-188.	JPRS 21036
Universal Large-Capacity Containers, by Stefan Kollar. CZECH, per, Silnicni Doprava, No 4, 1963, pp 10, 11.	*ACSI I-3350 ID 2246289
The East German Railroads in the Period of Comprehensive Building of Socialism, by E. Kramer, 7 pp. GERMAN, per, Deutsche Eisenbahn Technik, No 6, 1963, pp 243-245.	JPRS 20817
The Effect of Economic Controls in the Planning and Management System of the National Economy, by Gerd Friedrich, 18 pp. GERMAN, per, Einheit, Vol XVIII, No 7, 1963, pp 18-28.	JPRS 21128
Fundamentals of Drying Technics, by H. J. Rauber. GERMAN, per, Die Lebensmittel-Industrie, No 2, 1963, pp 33-48.	*ACSI I-3320 ID 2246280
Vacuum Freeze-Drying of Foodstuffs, by M. Scharnbeck,	
6 pp. GERMAN, per, Die Lebensmittel-Industrie, No 3, 1963, pp 69-71.	ACSI I-2667 ID 2235109

Eastern Europe Economic (Contd)

CEMA's General Terms for Assembly and the Granting of Other Technical Services, 1962, 17 pp. GERMAN, per, Markt Informationen, 15 Jul 1963, pp 10-10A.	JPRS 21129
General Customer Service Terms of CEMA, Effective 1962,	
11 pp. GERMAN, per, Markt Informationen, No 26, 1963, pp 11, 12.	JPRS 20766
High Transport Operation Rates With Cable-Drawn Ingot and Slab Buggies, by H. von der Warth, T. Sevenich. GERMAN, per, Stahl und Eisen, Vol LXXXIII, No 4, 1963, pp 517-522.	*BISI 3305
High Transport Operation Rates With Cable-Drawn Ingot and Slab Buggies, by H. Greiner. GERMAN, per, Stahl und Eisen, Vol LXXXIII, No 4, 1963, pp 522-526.	*BISI 3306
High Transport Operation Rates With Cable-Drawn Ingot and Slab Buggies, by W. Haring. GERMAN, per, Stahl und Eisen, Vol LXXXIII, No 4, 1963, pp 526-532.	*BISI 3307
Improvement of Building Material Planning Through a System of Material Balances, by Jurgen Becher, 30 pp. GERMAN, per, Wirtschaftswissenschaft, No 6, 6 Jun 1963, pp 885-900.	JPRS 20817
Inter-Cooperative Facilities of the Agricultural Producer Cooperatives, by Werner Boyde, 30 pp. GERMAN, per, Wirtschaftswissenschaft, No 6, 1963, pp 934-945.	JFRS 20785
Foreign Trade Turnover of Feedstuffs and Agricultural Products During 1957-1961, by Istvan Deak, 11 pp. HUNGARIAN, per, Elelmezesi Ipar, No 6, 1963, pp 192-196.	JPRS 20766
Problems of Cooperation Among CEMA Countries, by Jozef Garam, 8 pp. HUNGARIAN, per, Figyelo, Vol VII, 1963, p. 7.	JPRS 20766
Conference on Power Economy, 9 pp. HUNGARIAN, per, Ipari Energiagazdalkodas, Vol IV, No 5, 1963, pp 115-117.	JPRS 20880
Consolidations and Organizational Changes in Light	
Industry, 7 pp. HUNCARIAN, per, Konnyuipari Ertesito, No 21, 25 Jun 1963, pp 195-197.	JPRS 20881

Unification of Passenger Fares in International Traffic, by Sandor Kiss, 14 pp. HUNGARIAN, per, Kozlekedesi Kozlony, Vol XIX, No 24, 16 Jun 1963, pp 420-423. JPRS 20971 Report on the 1962 Activities of the Road Research Institute, by Gyorgy Kovacs, 26 pp. HUNGARIAN, per, Malyepitestudomanyi Szemle, Vol XIII, No 6, Jun 1963, pp 254-261. JPRS 20880 Problems of Technical Development in Coal Mining, by Jeno Baranyi, 10 pp. HUNGARIAN, per, Munkaugyi Szemle, Vol VII, No 7, 1963, JPRS 20939 pp 1-4. MSZMP Central Committee Discusses Hungarian Economy, JPRS 20930 HUNGARIAN, np. Nepszabadsag, 4 Aug 1963. Fixed Assets of the National Economy, by Zoltan Roman, HUNGARIAN, per, Statisztikai Szemle, Vol XLI, No 7, 1963, JPRS 20881 pp 671-693. The Skilled Training and Earning Ratics of Workers, by Laszlo Lengyel, 7 pp. HUNGARIAN, per, Valosag, Vol VI, No 3, 1963, up 85-90. JPRS 20881 Twenty-First Meeting of Polish Radiologists in Cdansk 24-26 May 1962 Together With the II. Regional Symposium on the Use of Radioactive Isotopes in Medicine and Biology, 21 pp. POLISH, rpt, XII Zjazd Radiologow Polskich w Gdansku, ACSI I-3049-B 1962, 31 pp. ID 2211689 Twenty-First Meeting of Polish Radiologists in Gdansk, 24-26 May 1962, 42 pp. POLISH, rpt, Zjazd Radiologow Polskich w Gdansku ACSI I-3049-A 24-26. V. 1962, 90 pp. ID 2211689 Second Regional Scientific Symposium on Use of Radioactive Isotopes in Biology and Medicine (Within the 21st All-Polish Congress of Radiologists, 52 pp. POLISH, rpt, II-go Krajowego Sympozjum Naukowego z Zakresu Stosowania Izotopow Promieniotworczych w Biologii i Medycynie (w Ramach XXI Ogolnopolskiego Zjazdu Radiologow), Gdansk, 24-26 May 1962, 86 pp. ACSI 1-3049-C ID 2211689

JPRS 20929

Better Utilization of Industrial Stores, hy

POLISH, np, Gazeta Handlowa, 11 Jun 1963, p 2.

Ignacy Brym, 10 pp.

Eastern Europe Economic (Contd)

Ferrous Metallurgy in the Third Year of the Five-Year Plan, by Jerzy Gwiazdzinski, 10 op. POLISH, per, Gospodarka Planowa, No 6, 1963, pp 1-19. JPRS 20939 Thermophosphate Plants Illustrating Problems of Locating Phosphorus Fertilizer Production, by Jerzy Gdynia, 15 pp. POLISH, per, Gospodarka Planowa, No 6, 1963, JPRS 20937 pp 30-36. Modernization of Farm Machinery, by Wladyslaw Greniuk, POLISH, per, Mechanizacja Rolnictwa, No 10, 1963, pp 10, 11. JPRS 20928 Regeneration of Motor Oils, by Dawid Lipson, 12 pp. POLISH, per, Nafta, No 5, 1963, on 117-121. JPRS 21003 Properties of Various Kinds of Cellophane and Their Rational Utilization, by Bohdan Czerniawski. *ACSI 1-3323 POLISH, per, Opakowanie, No 1, 1963, pp 13, 14. ID 2246282 Management of State Forests, by Grzegorz Fomicz, 11 pp. POLISH, per, Polski Las, Vol XXXVII, No 13, 14, 1-31 Jul 1963, pp 1-6. JPRS 21158 Difficulties in Exploiting Electrical Traction, by Zdzislaw Luczywek, 7 np. POLISH, per, Przeglad Kolejowy Elektotechniczny, No 7, 1963, pp 196-199. JPRS 20929 1962-1963 Campaign for Grain Sales in Wielkopolska, by Waclaw Daczkowski, 7 pp. POLISH, per, Przeglad Zbozowo-Mlynarski, Vol VII, No 4, 5, 1963, pp 98-100. JPRS 20593 Basic Trends in the Development of the Grain Milling Industry, by Jan Kaminski, 5 pp. POLISH, per, Przeglad Zbozowo- Mlynaishi, Vol VII, No 6, 1963, pp 154-158. JPRS 20846 Structure and Production Significance of Contracting, by Henryk Cholaj, 32 pp. POLISH, per, Wies Wspolczesna, No 6, 1963, pm 74-87. JPRS 20890 Regional Cultivation of Seed Vegetables, by Bronislawa Drzas, 10 pp. POLISH, per, Wies Amplezesna, No 6, 1963, pp 133-137. JPRS 20890

Eastern Europe Economic (Contd)

Selected Articles From the Polish Periodical Zycie Gospodarcze.

27 Jul 1963, p 4. Reforms at Oswiecim Chemical Plant, by Wladyslaw Dudzinski, 7 pp.	JPRS	20939
28 Jul 1963. New Methods of Planning in the Machine Industry, by Ludwik Kazalski, 7 pp, (pp 1, 4, 5).	JPRS	21079
Market Difficulties With Lumber, 12 pp, (p 3).	JPRS	20890
New Planning Methods in the Machine Industry, by Ludwik Kazalski, 6 pp, (pp 4, 5).	JPRS	21078
Rational Utilization of Agricultural Machinery, by Toma Dragos, 5 pp.		
RUMANIAN, per, Agricultural Socialists, No 22, 4 Jul 1963, pp 1, 2	JPRS	21103
The Paroseni Thermoelectric Power Plant, by R. Munteanu, 15 pp.		
RUMANIAN, per, Energetica, Vol XI, No 6, 1963, pp 241-245.	JPRS	21059
Enterprise Finance During the Fifteen Years Since the Nationalization of the Principal Means of Production, by M. Diamandopol, 16 pp.		·
RUMANIAN, per, Finante si Credit, Vol IX, No 6, 1963, pp 23-39.	JPRS	21116
The Establishment of New Wholesale Prices on 1 Jan 1963, by I. Iticovici, 12 pp.		
RUMANIAN, per, Finante si Credit, Vol IX, No 6, 1963, pp 40-51.	JPRS.	21116
The Financing of the Technical Plan, by Aureliu Petrescu,		
11 pp. RUHANIAN, per, Finante si Credit, Vol IX, No 6, 1963, pp 52-61.	JPRS	21116
Development of Consumer Cooperatives, 5 pp. RUMANIAN, per, Gazeta Finantelor, Vol II, No 519, 19 Jun 1963, p 3.	JPRS	20953
Reduction of Circulation Expenses in the Trade Sector,		
7 pp. RUMANIAN, per, Gazeta Finantelor, Vol II, No 521, 3 Jul 1963, p 4.	JPRS	20953

The Unirea Vegetable Oil Plant at Iasi, by I. Boeriu, 5 pp.	
RUMANIAN, per, <u>Industria Alimentara-Produsevegetale</u> , Vol XIV, No 5, 1963, pp 166-170.	JPRS 20846
Forestry in the Six-Year Plan, 13 pp. RUMANIAN, per, Industria Lemului, Vol XIV, No 6, 1963, pp 202, 203.	JPRS 20816
The Silk Industry A Sector in Full Development, by P. Dinis, 9 pp.	
RUMANIAN, per, Industria Textila, Vol XIV, No 6, 1963, pp 241-244.	JPRS 20971
Technical Progress in the Shoe Industry, by Emilian Tiron, 18 pp.	
RUMANIAN, per, Industria Usoara, Vol X, No 5, 1963, pp 181-186.	JPRS 20953
Current Aspects in the Development of the Machine- Building Industry, by Sergiu Bulgakoff, 24 pp.	
RUMANIAN, per, Lupta de Clasa, Vol XLIII, No 6, 1963, pp 3-12.	JPRS 21020
Recovery of Investment Funds in the Crude Oil Extraction Industry, by T. Haniulescu, 11 pp.	
RUMANIAN, per, Petrol si Gaze, Vol XIV, No 6, 1963, pp 314-316.	JPRS 21003
Selected Articles From the Rumanian Periodical Probleme Economice.	
No 6, 1963. Labor Productivity in Industry, by I. Bati, 11 pp,	
(pp 19-31).	JPRS 21078
Cutting Production Costs in the Chemical Industry, by Mihai Florescu, 15 pp, (pp 32-45).	JPRS 20939
Economic Aspects of the Production of Prefabricated Parts, by R. Untu, 25 pp, (pp 46-57).	JPRS 20929
The Production of Communist Countries in 1962, by I. Burstein, I. Lemnij, 13 pp, (pp 79-89).	JPRS 21078

Selected Articles From the Rumanian Periodical Probleme Economice. (Contd)

No 7, 1963. The Importance of Growth Rates for the Equalization of Economic Levels in Socialist Countries, by I. Rachmuth, 12 pp, (pp 3-13).	JPRS 20906
Improvement of the Tariff System in Commodity Transport, by A. Schachter, 34 pp, (pp 35-48).	JPRS 21130
Economic Effectiveness of New Technology in the Mechanization of Agriculture, by N. Marghidan, I. Bianu, 31 pp, (pp 49-63).	JPRS 21158
Modernization of the Rumanian Railroads, 5 pp. RUMANIAN, per, Revista Cailor Ferate, No 6, 1963, pp 313, 314.	JPRS 20817
Production of Corn in State Farms, by Eugen Jianu, 11 pp. RUMANIAN, per, Revista Internationala Pentru Agricultura, No 3, 1963, pp 49-52.	JPRS 20785
Rumanian Dendrometer, by V. Mafteianu, M. Stanescu. RUMANIAN, per, Revista Padurilor, Vol LXXVI, No 5, 1961, pp 282-284.	NZDIA
Aspects of the Socialist Reproduction of the Technical and Material Base in State Farms, by Bucur Schiopu, E. Jianu. 7 pp.	
	JPRS 20846
and Material Base in State Farms, by Bucur Schiopu, E. Jianu, 7 pp. RUMANIAN, per, Revista de Statistica, Vol XII, No 6,	JPRS 20846 JPRS 21020
and Material Base in State Farms, by Bucur Schiopu, E. Jianu, 7 pp. RUMANIAN, per, Revista de Statistica, Vol XII, No 6, 1963, pp 3, 4. Achievements of the Brasov Tractor Plant, by Constantin Mitea, 6 pp.	

Selected Articles From the Russian Periodical Byul Inostrannoy Kommercheskoy Informatsii.

No 5, 1963. Hungarian People's Republic, 25 pp, (pp 44-56).	JPRS	20908
East German Economic Development in 1962, 27 pr., (pp 66-79).	JPRS	20802
Polish Economic Development in 1962, 32 pp, (pp 104-118).	JPRS	20802
Czechoslovak Economic Development Thru 1962, 36 pp, (pp 130-147).	JPRS	20802
The Socialist Federation of Yugoslavia, 18 pp, (pp 147-154).	JPRS	20908
No 6, 1963. The People's Republic of Bulgaria, 24 pp, (pp 32-43).	JPRS	20908
The Rumanian People's Republic, 23 pp, (pp 119-129).	JPRS	20908
River Fleet of the Polish Peoples Republic, by Vitol'd Stronk, 5 pp. RUSSIAN, per, Rechnoy Transport, No 12, 1962, p 1. (Call No HE7 R24, 1962, No 12 Eng Tr)	Army	Map Service
Analysis of 1962 Accounts in General Agricultural Cooperatives, 23 pp. SERBOCROATIAN, per, Glasnik Poljoprivrednih i Zadruznih Organizacija, Vol III, No 6, 1963, p. 9, 19.	JPRS	20928
Results of Production Cooperation in Field-Crop Production, 41 pp. SERBOCROATIAN, per, <u>Jugoslovenski Pregled</u> , No 5, 1963, pp 228-233.	JPRS	20816
The Possibilities for Increasing the Socialized Land Area, by Borislav Radovanovic, 48 pp. SERBOCROATIAN, per, Poljoprivreda i Zadrugarstvo, Vol X, No 6, 1963, pp 3-14.	JPRS	21103
Credits for Current Assets in Agriculture, by Milan Timotic, 32 pp. SERBOCROATIAN, per, Poljoprivreda i Zadrugarstvo, Vol X, No 6, 1963, pp 20-30.	JPRS	20816

The Marketability of the Yugoslav Agriculture, by Svetozar Tosovic, 10 pp.
SER. CROATIAN, per, Foljoprivreda i Zadrugarstvo, Vol X, No 7, 1963, pp 11-15.

JPRS 20928

Yugoslavia, Freight Traffic Through Yugoslav Seaports in 1962, by Jolko Vukov, 18 pp. SERBOCROATIAN, per, Pomorstvo, Vol XVIII, No 6, 1963, pp 173-176.

JPRS 20880

The State of Construction in Yugoslavia, by Hasan Siljak, 49 pp. SERBOCROATIAN, per, Tehnika, Vol XVII, No 8, 1963, pp 1433-1442.

JPRS 21130

Political

Some Problems in the Management of Mass Political Work, by David Elazar, 5 pp.
BULGARIAN, per, Partien Zhivot, No 10, Jul 1963, pp 3-7.

JPRS 20909

The Development of People's Councils as Social Organizations in the People's Republic of Bulgaria, by Dimitur Dimitrov, 18 pp.
BULGARIAN, per, Pravna Misul, No 3, 1963, pp 3-17.

JPRS 21114

Principles Governing Taxation Which Should Be Incorporated in the New Law on Taxes, by Marko Djurbabic, 33 pp. CROATIAN, per, Finansije, No 3, 4, 1963, pp 117-144.

JPRS 21063

Speech by General B. Lomski, Minister of National Defense.
CZECH, per, Rude Pravo, No 10, 1963, p 2.

*ACSI I-3308-A ID 2244442 525th MI Gp

Lecture Delivered by Austrian Foreign Minister Dr Bruno Kreisky on 3 July 1963: At the Law Faculty of the University of Bucharest, 10 pp. GERMAN, rpt, Encl No 1 to Desp A-132, AmEmbassy, Vienna.

Dept of State

The Closed Commercial State, by Johann Gottlieb Fichte. GERMAN, rpt, Der Geschlossne Handelsstaat.

*ACSI I-3252 ID 2244423

Civil Aviation Law of 31 July 1963, 22 pp. GERMAN, per, Gezetzblatt der Deutschen Demokratischen Republik, Vol I, No 9, 1963, pp 113-121.

Eastern Europe Political (Contd)

Report by the First Secretary of the SED Central Committee and State Council Chairman Walter Ulbricht to the SED Central Committee on the CEMA Meeting in Moscow, 20 pp.

WEST GERMAN, np, IWE -- Informationsbuero West, 20 Aug 1963.

JPRS 20891

East German State Council Decision on the Election Districts for the Forthcoming People's Chamber Elections, 7 pp.

GERMAN, np, Neues Deutschland, 6 Aug 1963.

JPRS 20909

The Interrupted Talks, 6 pp. GERMAN, np, Volksstimme, 23 Jul 1963, pp 1, 2.

JPRS 20744

Kadar Speaks at USSR-Hungary Friendship Rally, by Janos Kadar, 15 pp. HUNGARIAN, n_{T} . Nepszabadsag, 7 Aug 1963.

JPRS 20930

Peaceful Coexistence -- A Basic Principle of the Foreign Policy of the Rumanian People's Republic, by H. Dona, 75 pp.

RUMANIAN, bk, Un Principiu de Baza al Politici Externe A.R.P.R. -- Coexistenta Pasnica, No 6, 1963, 61 pp.

JPRS 20858

The State Council of the Rumanian People's Republic -- The Supreme Organ of State Power, by I. Benditer, 13 pp.
RUMANIAN, per, Justitia Noua, Vol XIX, No 6, 1963, pp 3-14.

JPRS 21114

Military

Firing Rules for Ground Artillery, 141 pp. GERMAN, bk, Schiessregeln fuer die Edartillerie, Berlin, 1959, 256 pp, Rpt No DV 21/61.

FSTC FLRS-1262-115

Experiences of the Political Section of a Unit, by Jan Krolak, 8 pp.
POLISH, per, Wojsko Ludowe, No 6, 1963, pp 34-37.

JPRS 20841

Radar Vectoring of Fighter Aircraft, by W. Delawski, 15 pp.
POLISH, per, Wojskowy Przeglad Lotniczy, Vol XVII, No 2, 1963, pp 11-23. 9685479

FTD-TT-63-606

Eastern Europe
Military (Contd)

*ACSI 1-3309 ID 2244443 525th MI Gp
JPRS 20841
*ACSI I-3306 ID 2244440 319th MI Bn
ACSI I-2610 ID 2235099
JPRS 20978
JPRS 20930
JPRS 21077
JPRS 20907
JPRS 21061
JPRS 21061

WESTERN EUROPE

Economic

Railroads, by Rigmor Skade. DANISH, bk, pp 649-710.

*ACSI I-3321-C ID 2246281

Water. Aarhus Harbor on the Transatlantic Routes, by M. Overrad, 5 pp.

DANISH, per, Stads-og Havneingenioren, No 6, 1963, pp 72, 74, 75. (Eng Tr)

Army Map Service

Selected Articles From the Finnish Periodical Teknillinen Aikakauslehti, No 5, 1962, Encl to R-62-62.

ACSI I-3072 ID 2197027

A. Basic Improvements in the Railway System, by Arvi Peitsara, 6 pp, (pp 130-135).

B. Finnish State Railroads Power Traction Equipment. Diesel-Powered Traction Equipment, by Aatos Vuokko, 8 pp, (pp 142-150).

C. Finnish State Railroads, Passenger Cars, ty Heikki Koshi, 6 pp, (pp 157-162).

D2. Administration of the State Railroads, by Aimo Pere, 8 pp, (pp 164-170).

European Transportation, by Gerard Pierrot, 24 pp. FRENCH, per, Revue Militaire d'Information, No 305, Jun 1959, pp 7-29, Encl No 1 to R-589-59, Office Army Attach, Amembassy, Paris, France.

ACSI I-1666 ID 2121376

Reorganization of Shipping Lines of Preminent National Interest, Law No 600 of 2 June 1962, 6 pp. ITALIAN, per, Gazzetta Ufficiale, No 167, 4 Jul 1962, pp 2675-2677.

Maritime Adm

Rice - Operation of Voluntary Pooling in 1962-1963. ITALIAN, per, Gazzetta Ufficiale Della Repubblica Italiana, No 309, 4 Dec 1962, Encl to No AGR-15, AmEmbassy, Rome.

USDA

Gas Turbine Power Plant of Hyhamm.

SWEDISH, per, Elektricitetens Rationella Anvandning,
No 4, 1963, pp 50, 51.

*ACSI I-3226 ID 2244413

Expansion of Electric Power During the 1970's, by Nils Holmin, 19 pp.
SWEDISH, per, Teknisk Tirskrift, No 2, 1963, pp 81-86. (Eng Tr)

Army Map Service

Danish Communist Party Resolution of 24 August Backs the USSR, 5 pp.	JPRS 21131
DANISH, np, Land og Gold, 28 Aug 1963, p 2.	JPK3 21131
Danish Dissident Journalist Junius Analyzes Possibilities for Future Action, by Junius, 7 pp. DANISH, np, SF, Vol V, No 30, 2 Aug 1963, pp 11, 12.	JPRS 20978
Reactions to the Test Ban Agreement Finnish Communist Daily Approves; Criticizes Chinese Countermove, by Armas Aikia, 5 pp. FINNISH, np, Kansan Butiset, 8 Aug 1963, p 4.	JPRS 21045
After the Encyclical Pacem in Terris: Communists and Catholics, by Roger Garaudy, 22 pp.	
FRENCH, per, Cahiers du Communisme, No 7, 8, 1963, pp 87-109.	JPRS 20723
French Dissidents Discuss Revisionism, by Jacques Bret,	
5 pp. FRENCH, per, <u>le Debat Communiste</u> , Vol II, No 17, 18, 15 Jul-15 Aug 1963, pp 17-19.	JPRS 21077
Three Views of the International Communist Conflict, by Alain Touraine, 7 pp. FRENCH, np, 1'Express, No 636, 22 Aug 1963, pp 8, 9.	JPRS 21094
French Leftist Weekly Speculates on What Chinese Communist Party Wants, by Claude Cadart, 8 pp.	
FRENCH, per, France Observateur, Vol XIV, No 694, 14 Aug 1963, pp 10, 11.	JPRS 20827
Concerning the Forms of the Transition From Capitalism to Socialism, by Waldeck Rochet, 5 pp.	
FRENCH, np, 1'Humanite, 2 Aug 1963, pp 1, 3.	JPRS 20744
Peaceful Coexistence and the Struggle of the	
Oppressed Peoples, by Leon Feix, 6 pp. FRENCH, np, 1'Humanite, 5 Aug 1963, pp 1-3.	JPRS 20848
Europe and the Chinese Theses, by Nguyen Kien, 10 pp.	
FRENCH, ner, Partisans, No 11, Jul-Sep 1963, pp 1-9.	JPRS 20848
The Atomic Bomb: A Paper Tiger?, by Marino Bodenmann,	
6 pp. FRENCH, np, <u>Voix Ouvriere</u> , No 171, 27 Jul 1963, p 1.	JPRS 20723

Western Europe Political (Contd)

French Smoke Generator.	*ACSI 1-3142
News on Foreign Navies, 9 pp. DUTGI, per, Marine Blad, No 6, 1963, USNA, The Hague.	NAVY 5868034963
Military	
3 Aug 1963, p 3. Unity and the Debate, by Palmiro Togliatti, 7 pp.	JPRS 20705
27 Jul 1963, pp 1, 10, 11. Pajetta and Other Party Leaders Discuss Problems of the International Communist Movement, by Carlo Pajetta's, 39 pp.	JPRS 20978
26 Jul 1963, pp 1, 10. Central Committee of the Italian Communist Party Meets, 25-26 July 1963, by Palmiro Togliatti's, 17 pp.	JPRS 20978
21 Jul 1963, pp 1, 20. The International Communist Conflict: Luigi Longo Analyzes the Sino-Soviet Meeting in Moscow, by Luigi Longo, 13 pp.	JPRS 20659
9 Jul 1963, p 3. The 25 Points of the PCC, by Franco Calamandrei, 10 pp.	JPRS 20347
7 Jul 1963, p 3. Distortions and Errors in the 25 Points of the PCC, by Franco Calamandrei, 12 pp.	JPRS 20347
Selected Articles From the Italian Newspaper L'Unita.	
We Shall Go Forward; We Shall Not Turn Back, by Palmiro Togliatti, 5 pp. ITALIAN, per, Rinascita, 27 Jul 1963, pp 1, 2.	JPRS 20744
The FCCI Press Conference Concerning Disarmament of the Police, Anti-Fascism, the Struggle for Peace and the Debate With the Chinese, 17 pp. ITALIAN, per, Nuova Generazions, 4 Aug 1963, pp 7-11.	JPRS 20848
The International Communist Conflict, 7 pp. GERMAN, np, Vorwaerts, No 34, 21 Aug 1963, pp 1, 2.	JPRS 21131

News on Foreign Navies, 9 pp. DUTGI, per, Marine Blad, No 6, 1963, USNA, The Hague.	NAVY 5868034963
French Smoke Generator. FRENCH, per, 1'Armee, No 22, Sep 1963, pp 84-87.	*ACSI 1-3142 ID 2240853
Charts on West Chemical Units. GERMAN, rpt, 1962, 6 pp.	*ACSI I-3103 ID 2246284 519th MI Bn

Western	Europe
Military	(Contd)

Military (Contd)	
Hit Performance of the DELTA Small Sight for Light AA Weapons. GERMAN, rpt, Die Treffleistung des DELTA-Kleinvisiers fur Leichte Fliegerabwehrwaffen, 4 Mar 1963, pp 1-11, Encl No 1 to 2834006263, OARMA, Bonn.	*ACSI I-3303 ID 2230130
Concrete Field-Type Shelter, by H. Isler. GERMAN, per, Technische Mitteilungen fuer Sappeure Pontoniere und Mineure, No 4, Jan 1956, pp 157-179.	*ACSI I-3307 ID 2244441
Industrial Defense Plan. NORWEGIAN, bk, Industrivernplan, 1953, 118 pp.	*ACSI I-3254 ID 2244425
Counterrevolutionary Operations and Their Technique, by Jaime de Oliveira Leandro, 17 pp. PORTUGUESE, per, Revista Militar, No 1, 1963, pp 33-70.	ACSI I-2242 ID 2227680
Geographic	
1959/1960 Report of Municipality of Aarhus. DANISH, rpt, Aarhus Kommunes Beretning, 1959-1960, pp 58, 181, 182, 185, 189, 190, 195.	*ACSI I-3225 ID 2244412
Selected Articles From the Danish Book Danmark.	
<pre>pp 418-423. Greater Copenhagen: The City Described by Quarter the Central Area of the City, by Rigmor Skade.</pre>	*ACSI I-3321-A ID 2246281
pp 617-646. Traffic: The Port of Copenhagen, by M. Fessen.	*ACSI I-3321-B ID 2246281
Vol VI, 1961. A. Locality of Alborg, (pp 807, 809-812, 856, 857, 860, 878, 879-881, 890).	*ACSI I-3223 ID 2244410
B. Locality of Norresundby (pp 902, 904, 907, 909, 910, 914, 915).	

D. Locality of Logstor, (pp 930, 931, 934, 936, 938, 1131, 1133, 1134).

Bulletin of the French Cartographic Committee, 33 pp. FRENCH, per, Bulletin de Comite Français de Cartographie, No 2, 1963, pp 123-128, 133, 134. (Eng Tr)

The Restoration of the Weser Quay at the Weser Railroad Terminal, Bremen, in the Years 1947-1948, by Wolfram Schenck, 12 pp.

GERMAN, per, Die Bautechnik, No 2, 1951, pp 26-30.

Army Map Service

ACSI 1-2280-A ID 2229405

Western Europe Sociological

Selected Articles From the Danish Book Danmark, 1961.

*ACSI I-3224 ID 2244411

- A. Radio Denmark, by Ejnar Fensen, (pp 371, 372).
- B. Hospitals and Health Services-Hospitals, by Harald Jorgensen, (p 491).
- C. Municipal Works, by Axel Holm, (pp 530-552).

Cultural Program Proposed for the Danish Communist Party, 17 pp.
DANISH, per, <u>Tiden</u>, Vol XXIV, No 4, 1963, pp 141-151.

JFRS 21045

Report by the Lahti Municipal Government, 26 pp. FINNISH, bk, Kertomus Lahden Kaupungin Kunnallishallinnosta, Vol II, 1960, Excerpts pp 3, 4, 47-53, 63-83, 174-181, 272. (Eng Tr)

Army Map Service

A Policeman Saved My Life.
FINNISH, per, Nyrkki, No 3, 1963, pp 2-9, Encl No 1 to IR 2831004363, OUSARMA, Finland.

*ACSI I-3227 ID 2232636

Refuse Disposal Service - The Present Situation in Answer to an Inquiry, by Jorma Niemela. SWEDISH, per, Finsk Kommunaltidskrift, pp 228, 229.

*ACSI I-3318-A ID 2246278

Further Development of the Refuse Disposal Service, by Heikki Saarento. SWEDISH, per, Finsk Kommunaltidskrift, pp 229-231.

*ACSI I-3318-B ID 2246278

AFRICA

Political

Constitution of the Kingdom of Libya, 19 pp. ARABIC, rpt, Dec 1962-Apr 1963, Encl No 1 to Desp A-20, Amembassy, Benghazi.

Dept of State

Africa Military

Provisional Instructions for the Use of Helicopters in A. F. N. FRENCH, rpt, Instruction Provisoire E'Emploi des Helicopteres en A. F. N., 20 Feb 1958, 160 pp.

*FTD-TT-63-870

Selected Articles From the French Periodical Forces Aeriennes Francaises.

No 7, 1959. The Heavy Helicopter in the Operations of Maintaining Order in Algiers, by Aerien Leroy, (pp 33-44). *FTD-TT-63-888

The Great Kabylia, Fief of the Rebellion, by Valet, (pp 45-56).

Bombardment in A.F. N. by Menanteau, (pp 57-64).

Liaison Communication in Algiers, by Tricaud, (pp 65-72).

The Role of the Air Force in Western Africa, by De Brigade Aerienne Madrej, (pp 89-96).

Political Ecolution of Western Africa From the French Side After a Year, by Claude Thierry, (pp 97-114).

French Air Forces in Western Africa, by Gatel, (pp 115-130).

No 5, 1960, pp 769-780. Reflections on the Subversive War, by A. Geurrini.

*FTD-TT-63-887

Selected Articles From the French Periodical Forces Aeriennes Françaises, Revue Mensuelle de L'Armee de L'Air.

No 157, Mar 1960. Aerial Evacuation of Wounded in A. F. N., by Thierry Kaeppelin, (pp 463-474). *FTD-TT-63-873

The Air Force in Algiers in 1959, by Louis Germain, (pp 499-504).

Sport in the Air Force, by Louis Germain, (pp 505-510).

No 158, Apr 1960, pp 675-678.
Rapid Liaison With the Community, by Louis Germain.

*FTD-TT-63-874

Africa Military (Contd)

France and Africa, by Nemo. FRENCH, per, Revue de Defense Nationale, No 1, 1960, pp 67-78.

*FTD-TT-63-884

The Navy and the Defense of the Community, by De Fregate Labrousse. FRENCH, per, Revue de Defense Nationale, No 10, 1960, pp 1651-1666.

*FTD-TT-63-885

African National Armed Forces, by Georges Chaffard, 10 pp.

FRENCH, per, Tropiques Revue des Troupes des Marine, No 3, 1962, pp 34, 36-42.

ACSI I-1645 1D 2203203

MIDDLE EAST

Economic

Organization of Electricity and Transportation - Aleppe on Its Tenth Anniversary of Nationalization 1951-1961.

ARABIC, rpt, Mu'assasat al Kahraba' wa an Naql -- Halab Ft Idiha al Ashir li at Ta'min 1951 - 1961, 1951-1961, pp 7-9, 12, 22-37.

*ACSI I-3311 ID 2246271

The Role of the Munitions Factories in the Consolidation of the Prosperity and Well-Being of the National Economy, 11 pp.
ARABIC, np, Al-ahram, No 23981, 21 Jul 1963, p 16.

JPRS 20768

How Far Can Our Consumption Go on Increasing?, 15 pp. ARABIC, np, Al-ahram, 1 Aug 1963, p 3; 2 Aug 1963, p 3; 3 Aug 1963, \overline{p} 3; 4 Aug 1963, p 3.

JPRS 21155

Foreign Trade Organizations in the United Arab Republic, 12 pp.
GERMAN, per, Markt Informationen, No 24, 17 Jun 1963, pp 10, 11.

JPRS 20768

Efforts to Encourage the Participation of Workers in the Management of Histadrut Industria: Institutions, by A. Beker, 19 pp. HEBREW, np, Davar, 22 Jul 1963, p 3.

JPRS 21065

A New Menahem Begin?, by Eli Eyal, 7 pp. HEBREW, np, Haarets, 2 Aug 1963, pp 3, 11.

Middle East Political

Selected Articles From the Hebrew Newspaper Kol Haam.

19 Jul 1963, p 2. Interregnum, by Moshe Saneh, 5 pp.	JPRS 20995
26 Jul 1963. Israeli Communists Support Soviet Communists in Their Dispute With Chinese Communists, by Berl Balti, 5 pp, (p 2).	JPRS 20848
The Arab Worker in Israel, by Dzamal Musa, 5 pp, (pp 3, 8).	JPRS 20995
7 Aug 1963, pp 1, 4. Statements of the Israeli Communist Party Delegation on Their Return From Moscow, 19 pp.	JPRS 21115
9, 12, 15 Aug 1963. Birthday Greetings to Comrade Shmuel Mikunis, Secretary-General of Israeli Communist Party, 7 pp.	JPRS 21115
16 Aug 1963, pp 2, 7. Resolutions of 11th Plenary Session of Israeli Communist Party Central Committee, 9 pp.	JPRS 21115
1963 Annual Meeting of Tekhnion Board of Directors, 5 pp. HEBREW, per, Yedi'ot Hatekhnion, No 63, Jun 1963, p 4, 5.	JPRS 20912
Tekhnion's Struggles and Achievements Last Year President's Report, 7 pp. HEBREW, per, Yedi'ot Hatekhnion, No 63, Jun 1963, pp 6, 7.	JPRS 20912
Military	
The Soldier Magazine. ARABIC, per, al-Jundi, No 5-6, 1963, pp 22, 23, Encl No 1 to IR 2847007363, OUSARMA, Baghdad, Iraq.	*ACSI I-3312 ID 2243070 519th MI Bn
Courage in Battle, by Yeshayahu Lavi, 13 pp. HEBREW, per, Bamahaneh, 30 Jul 1963, pp 7-9, 20.	JPRS 20982
Sixty Tanganyikans and Ugandans Train in Isreal in an Army Officers' Course, by Eli Landau, 5 pp. HEBREW, per, Bamahaneh, 30 Jul 1963, pp 10, 11.	JPRS 20982

Middle East Sociological

Publication of Reports by State Comptroller
Regarding Examination of the Rural Councils, 11 pp.
HEBREW, np, Davar, 15 Aug 1963, p 5.

A 15% Increase in Farmers' Income, 6 pp.
HEBREW, np, Davar, 15 Aug 1963, p 6.

JPRS 21095

Hardships Endured by Israeli Immigrants Upon Arrival
From South America, by Haviv Kanaan, 5 pp.
HEBREW, np, Haarets, 1 Aug 1963, p 5.

JPRS 20982

Scientists in the Technion Engate in Human
Engineering, 5 pp.
HEBREW, np, Haarets, 8 Aug 1963, p 6.

JPRS 21095

Far East Economic

Selected Articles From the Chinese Periodical Ching-chi Yen-chiu.

No 6, 1963. Several Problems of Economic Coordination Relationships Under the Socialist System, by Hsiao Liang, 7 pp, (pp 1-9).

The Question of Funds in the Agricultural Modernization Process, by Yang P'ei-Hsin, 32 pp, (pp 10-19).

Rules and Principles of Mutual Coordination Between Industry and Agriculture Under Socialism, by Wang Chu-chuang, 37 pp, (pp 20-32).

Short Distance Transportation: Its Characteristics and the Role it Plays in Rural-Urban Interflow of Goods, by Lei T'ing, 27 pp, (pp 33-38).

Certain Problems of Capital Accounting in Socialist Enterprises, by Wang Lusheng, 22 pp, (pp 39-47).

Several Problems on Determination of Commodity Value by Teng Hanwei, 22 pp, (pp 48-56).

Critism and Evaluation of Input-Output Analysis, by Wu Chia-pei, 41 pp, (pp 57-72).

No 7, 1963.

A Preliminary Discussion of Several Problems Relating to Crop Arrangement, by Liu Pai-T'ao, 12 pp, (pp 1-7).

Concerning Certain Problems of the Seasonal Nature of Agricultural Labor, by Chia Wen-lin, Hsu En-po, 18 pp, (pp 8-15).

Evaluating the Economic Benefits of Agricultural Machinery and Implements, by Ma Hang-yun, 12 pp, (pp 16-21).

JPRS 20893

Far East Economic (Contd)

Selected Articles From the Chinese Periodical Chingichi Yen-chiu. (Contd)

No 7, 1963. JPRS 20979 Understanding Agriculture as the Foundation of the Development of Our National Economy Through its Essential Cohesiveness With Other Sectors of the Economy, by Tung Fu-jeng, 12 pp, (pp 22-29). The Product and Commodity in Socialist Economy, by Ho Chien-chang, 19 pp, (pp 30-38). On Several Problems Associates With the Concept of Working Capital, by Ch'en Jung, 13 pp. (pp 39-46). The Development of Japan's Post-War Economy and the Intensification of its Conflicts, by Chuang T'ao, 52 pp. JPRS 21153 CHINESE, per, Hung Ch'i, No 16, 1963, pp 27-37. Rice Cropping and Soil Improvement of Salnized Areas in Hopei, Shantung, and Honan Provinces, by Chang Han-chieh, 20 pp. CHINESE, np, Kuang-ming Jih-pao, 30 Jul 1963, p 4. JPRS 21150 Massively Organize the Delivery of Industrial Products Into the Countryside, 11 pp. JPRS 21160 CHINESE, np, Ta Kung Pao, 14 Aug 1963, p 1. Intensive Development of the Operation and Management Improvement Campaign of State Operated Commerce, 5 pp. CHINESE, np, Ta Kung Pao, 16 Aug 1963, p 1. JPRS 21160 Concerning the National Warehouse Stock of Commercial Enterprises, by Kao Ch'ih-lan, Wu An-ch'un, 7 pp. CHINESE, np, Ta Kung Pao, 16 Aug 1963, p 3. JPRS 21160 The New Tube Mill at the Choudwar Tube Works, by F. Homberg. GERMAN, per, Bander Bleche Rohre, Apr 1962, pp 187-189. **BISI 2971**

Ten Years of Development of the Science and Technology of Railway Transportation in the Peoples Republic of China, by I-sheng Mao, 7 pp.

GERMAN, per, Z der Organisation fuer die Zusammenarbeit der Eisenbahnen, Vol III, No 2, 1960, pp 18, 19.

(Call No TF3 084, Vol 3, No 2, Eng Tr)

Army Map Service

Far East Economic (Contd) Technical Accomplishments of the Chinese Railroads Concerning Bridge- and Tunnel-Construction, by Lin Hsi-po, 9 pp. GERMAN, per, Z der Organisation fuer die Zusammenarbeit der Eisenbahnen, Vol III, No 5, 1960, pp 9-11. (Call No TF3 084. vol 3, No 5, Eng Tr)

Army Map Service

The New Railroad Station in Peking, 6 pp. GERMAN, per, Z der Organisation fuer die Zusammenarbeit der Eisenbahnen, Vol III, No 5, 1960, pp 24-27. (Call No Tp3 084. vol 3, No 5, Eng Tr)

Army Map Service

Agricultural Production and a Nasakom Cabinet, ASMU, 7 pp. INDONESIAN, np, Harian Rakjat, 17 Jun 1963, p 3.

JPRS 20847

The Workers Stubbornly Support the Economic Declaration, by D. N. Aidit, 15 pp. INDONESIAN, np, Harian Rakjat, 18 Jun 1963, pp 3, 4.

JPRS 20847

Policy of Korean Labor Party for Development of Light Industry, 103 pp. KOREAN, bk, Kyong Kongop Paljen Ul Uihan Uri Tang-e Chongch'aek, Pyongyang, 25 Jun 1961, 221 pp.

JPRS 20940

Analysis of Technical Improvement Plant, by Son Mong-nim, 8 pp. KOREAN, per, Kyongje Chisik, No 5, 1963, pp 32-36.

JPRS 20779

Selected Articles From the Korean Newspaper Minju Choson.

Methods of Evaluating the Performance of Agricultural Production Plans, by Kim Il-che, 12 pp.

JPRS 20918

5 Jul 1963. Commentary on Cabinet Decision to Carry Out Successfully the 1963 State Budget, by Cho Chang-ki, 8 pp.

JPRS 20820

Popularize the Pukchong Farming Methods Through the Country, by Kim Yong-ho, Kim Chin-o, et al, 13 pp, (p 4).

6 Jul 1963, p 2. Methods of Analysis for Organization and Planning for Local Industries and Enterprises, by Lee Pyongmu, 7 pp.

Far East Economic (Contd)

Selected Articles From the Korean Newspaper Minju Choson. (Contd)

9 Jul 1963, p 2. Methods of Drawing up Plans to Improve Labor Efficiency in Production in Local Industries and Enterprises, by Pak Sang-hun, 6 pp.	JPRS 20918
11-13 Jul 1963, p 2. Proper Introduction of Work Team Rating System and Methods of Operation, by Chong Byong-kwang, 19 pp.	JPRS 21022
14 Jul 1963, p 2. Formulating the 1964 Plan for Mechanization of Agriculture, by Bureau of Agricultural Planning State Planning Commission, 8 pp.	JPRS 20970
16 Jul 1963, p 2. Formulating the 1964 Plan for Irrigation Maintenance Part I, by BAP, State Planning Commission, 6 pp.	JPRS 20970
17 Jul 1963, p 2. Formulating the 1964 Plan for Irrigation Mainte- nance Part II, by BAP, State Planning Commission, 5 pp.	JPRS 20970
18 Jul 1963, p 2. The Method for Formulating the Plan for Rural Labor Force in 1964, by BAP, State Planning Commission, 7 pp.	JPRS 20970
Being Caretakers for the Nation's Well Being is a Noble Role of the Communists, by Chong Tal-kun, Sok Chun-hak, 9 pp. KOREAN, np, Nodong Sinmun, Vol CLXXXIII, 2 Jul 1963, p 2.	JPRS 20820
On Expanding the Varieties of Those Commodoties Necessary to Life and Improving Their Quality, by Pak Kyong-suk, 5 pp. KOREAN, np, Nodong Sinmun, Vol CLXXXIV, 3 Jul 1963, p 2.	JPRS 20820
Tractor Utility Rate and Method of its Computation, by Choe Kuk-ryung.	IDDC 2000
KOREAN, np, Nodong Sinmun, 4 Jul 1963.	JPRS 20820

Selected Articles From the Mongolian Newspaper Unen.

5 Jun 1963, p 1. The Wool Procurement Plan Must Be Fulfilled in Time, 5 pp.	JPRS 20767
6 Jun 1963, p 1. Duties of Party Cell Bureaus at Industrial and Business Enterprises, 5 pp.	JPRS 20767
8 Jun 1963, pp 1-3. Yu. Tsedenbal's Speech at the Meeting of Constituent of Ulan Bator Factory and Plant Electoral District, 36 pp.	JPRS 20767
27 Jun 1963, p 1. Property of Agricultural Artels is Sacred and Inviolable, 5 pp.	JPRS 20920
28 Jun 1963, p 1. Honorable Duties of Agricultural Management Personnel, 5 pp.	JPRS 20920
2 Jul 1963, p 3. Report of D. Dorjgotob, Minister of Trade and Procurement, 12 pp.	JPRS 20952
5 Jul 1963, p 1. Advanced Experience in Agitation Work Must be Adopted, 5 pp.	JPRS 20952
8 Jul 1963, p 2. Forty Years of Tob Aymak, by S. Ragchaa, 6 pp.	JPRS 20952
10 Jul 1963, p 1. The Great School of Life, 7 pp.	JPRS 20952
11 Jul 1963, p 3. A Historic Victory With a Deep Meaning by B. Shirendeb, 6 pp.	JPRS 21057
13 Jul 1963, p 3. Economic Successes as a Yardstick to Measure the Ideological Work, 5 pp.	JPRS 21057
A Permanent Labor Force for the Far East, by V. Raguzov, 7 pp.	
RUSSIAN, per, Sotsialisticheskiy Trud, No 6, 1963, pp 77-80.	JPRS 21110

Far East Economic (Contd)	
Reorganization of Administrative Districts in Thailand, 5 pp. THAI, per, Ratchanakitchanubeksa, Vol LXXX, No 8, 22 Jan 1963, pp 96-105.	JPRS 21156
Increased Economic Results in Industrial Production, by Nguyen Van Tran, 29 pp. VIETNAMESE, per, Hoc Tap, Jul 1963, pp 1-8.	JPRS 20704
Local Industry and Handicraft in Socialist Industrial- ization Work, by Nguyen Van Thi, 14 pp. VIETNAMESE, per, Hoc Tap, No 7, 1963, pp 26-35.	JPRS 20704
Let us Heighten Our Responsibility Concept, Strengthen Economic-Financial Management, Improve Technology, Oppose Corruption, Waste, and Bureaucracy, 9 pp. VIETNAMESE, np, Nhan Dan, 3 Aug 1963, p 1.	JPRS 21096
To Deserve Being Called the Largest Department Store of the Capital, by Cong Tam, 9 pp. VIETNAMESE, np, Nhan Dan, 5 Aug 1963, p 3.	JPRS 21096
Political	
Some Understandings About the Guiding Principles of Evidences in Litigations in China, by Wu Lei, 17 pp.	
CHINESE, per, Cheng-fa Yen-chiu, No 1, Feb 1963, pp 21-25.	JPRS 21017
Chinese Peoples' Republic Comment on USSR 3 August Statement, 16 pp. CHINESE, per, Hung-ch'i, No 16, 15 Aug 1963, rp 3-14.	JPRS 21153
Examination of the War Problem Cannot Be Separated From the Marxist-Leninist Class Struggle Viewpoint, by Lu Chih-ch'ao, 18 pp.	
CHINESE, per, Hung-ch'i, No 16, 1963, pp 15, 16.	JPRS 21153
Text of Liao Cheng-chih Speech, 10 pp. CHINESE, np, Jen-min Jih-pao, 2 Aug 1963, pp 2, 4.	JPRS 21015

Chinese Peoples' Republic on USSR 3 August Statement,

JPRS 21115

Peiping's Grab for Europe, 6 pp. GERMAN, per, Echo Der Zeit, 4 Aug 1963.

Far	East	
Poli	tical	(Contd)

Comments on Policy Clash Between Chinese and Soviet Communist Parties, by Kurt Hager, 43 pp. GERMAN, per, Informationsbuero West, pp 11-31.	JPRS	21028
Party Cadres Should be Cultural Leaders, by Banda Harahap, 5 pp. INDONESIAN, np, Harian Rakjat, 15 Jun 1963, p 3.	JPRS	20847
Opposing Malaysia Means Opposing Imperialists, by M. H. Lukman, 6 pp. INDONESIAN, np. Harian Rakjat, 29 Jul 1963, p 3.	JPRS	21075
National Revolutionary Unity Can Only be Founded on Revolutionary Studies, by M. H. Lukman, 13 pp. INDONESIAN, np, Harian Rakjat, 30 Jul 1963, p 3, 31 Jul 1963, p 3.	JPRS	21075
Resolutions of the Meeting of the Executive Committee of the Afro-Asian Writers Conference, 15 pp. INDONESIAN, np, Hr Minggu, 28 Jul 1963, p 3.	JPRS	20027
Communist China's Basic Viewpoints and Attitudes Prior to Sino-Soviet Talks, 21 pp. JAPANESE, per, Soken Sokuho, Vol I, No 15, 5 Jun 1963, pp 2-23.	JPRS	21152
Collectivism as the Fundamental Principle of Communist Morals, by Cho Myon, 8 pp. KOREAN, per, Kulloja, No 12, 20 Jun 1963, pp 17-21.	JPRS	20983
Planning in Socialism, by Chon Ung, 10 pp. KOREAN, per, Kulloja, No 12, 20 Jun 1963, pp 22-29.	JPRS	20983
Selected Articles From the Mongolian Newspaper Unen.		
9 Jun 1963, p 1. A State of the Working Masses, 5 pp.	JPRS	20767
24 Jun 1963, p l. Greetings to the World Congress of Women, 5 pp.	JPRS	20920
29 Jun 1963, p 1. The Tasks of Courts and Procurator Organs, 5 pp.	JPRS	20920
3 Jul 1963, p 4. The Closing Meeting of the First Session of the Fifth People's Great Hural of the Mongolian People's Republic, 9 pp.	JPRS	20952

Far East
Political (Contd)

Selected Articles From the Mongolian Newspaper Unen. (Contd)

6 Jul 1963, p 1.
Marking of the 60th Anniversary of the
II Congress of the Russian Workers' SocialDemocratic Party, 5 pp.

JPRS 20952

8 Jul 1963, p 1. It is Our Internationalist Duty to Preserve the Purity of Socialist and Communist Ideology, 5 pp. JPRS 20952

11 Jul 1963, p 2. Highlights of National Day Speech by Ts. Puntsagnorob, Deputy Chairman of the Mongolian People's Republic Council of Ministers, 13 pp.

JPRS 21057

JPRS 21057

12 Jul 1963, pp 1, 2. Military Parade and Workers' Holiday Demonstration in Suhe Bator Square, 11 pp.

Revolutionary Publications in South Vietnam, by Manh Hong, 5 pp. VIETNAMESE, np, Nhan Dan, 20 Jul 1963, p 6.

JPRS 21106

Military

Liberation Army Pictorial, 14 pp. CHINESE, per, Chich-fang-chun Ilua-pao, No 4, 1963, USARMLO, Hong Kong.

ID 2842052363

Synopsis on the Use of Air Forces in the Far East, 1946-1954.

FRENCH, rpt, Syntheses sur L'Emploi des Forces
Aeriennes en Extreme-Orient 1946-1954, 1955, 254 pp.

*FTD-TT-63-872

Summary of Ordnance Material by Ground Self-Defense Force Ordnance Section, 11 pp.

JAPANESE, rpt, Bukika no Gaibo, 1 Oct 1961, pp 5-14; 23.

ACSI 1-2971-A-J ID 2240820

Navigational Aids: Lighthouses; Fog-Horn; Beacons, 6 pp.
JAPANESE, np, Shipping and Trade News, 20 Jul 1963, USNA, Tokyo, Japan.

NAVY 5852074663

Military Unit Citations Awarded in 1962 Three-First Movement - North Vietnam - 14 pp. VIETNAMESE, np, Quan Doi Nhan Dan, 4 Jul 1963, p 2, 3.

Far East Geographic

The Region in the Eastern Part of the Mongolian Peoples Republic, 16 pp.

GERMAN, per, Geographische Berichte, No 23, Oct 1962, pp 125-141.

ACSI I-2250-A ID 2229404

Geographical Observations in Chinese Metropolises, 12 pp.

GERMAN, per, <u>Geographische Berichte</u>, No 23, Oct 1962, pp 142-152.

ACSI I-2250-B ID 2229404

Morphology and Development of Kegelkarst in Southern China and Northern Vietnam, by Jan Silar, 12 pp.

GERMAN, per, Petermanns Geographische Mitteilungen, Vol CVII, No 1, 1963, pp 14-19.

JPRS 20830

Sociological

Grasp the Laws of Class Struggle During the Period of Transition, by Pien Hsi-wen, 27 pp. CHINESE, per, Cheng-fa Yen-chiu, No 1, Feb 1963, pp 1-7.

JPRS 21017

The System of Ownership Right Based on the Production Teams of Rural Communes, by Kuan Huai, 23 pp. CHINESE, per, Cheng-fa Yen-chiu, No 1, Feb 1963, pp 15-20.

JPRS 21017

Selected Articles From the Chinese Periodical Hung Ch[†]i, No 13, 14, 10 Jul 1963.

JPRS 21008

Cadre Participation in Collective, Productive Labor Essential, 20 pp, (pp 2-14).

A United, Industrious, Forward-Looking Collective, by Li Ch'eng-chang, 9 pp, (pp 15-19).

True Colors of an Old Peasant, by Li T'ing-fan, Ch'ien Chin, 7 pp, (pp 19-22).

He Leads in Labor and Sets an Example in Work, by Shen Yuan-tse, Lien Chih-shui, 8 pp, (pp 23-26).

Labor is the Duty of a Commune Member, by Sun Ju-ch'un, Pi K'o-yu, 5 pp, (pp 27-29).

Always Maintain True Features of the Toiling People by Cheng Chi-hsiung, 7 pp, (pp 30-34).

Far East
Sociological (Contd)

Selected Articles From the Chinese Periodical Hung Ch'i, No 13, 14, 10 Jul 1963. (Contd)

JPRS 21008

Good Example for Commune Members, Guide for Youths, by Mo Chan-lin, 8 pp, (pp 35-39).

Reasons for Consistent Participation in Labor, by Wan Liyun, 5 pp. (pp 39-41).

At the Foot of Ssu-wang-shan, by Pi Yeh, 8 pp, (pp 42-46).

Lead Production by Taking Part in Production, by Wang Luan-sheng, 8 pp, (pp 49-51).

He is a Farmer, by Chou Wei-fu, Jen Hao-min, 10 pp, (pp 52-57).

Hoe in Hand for Thirteen Years, by Chang Chien, Jen San, 5 pp, (pp 57-59).

Great Example set by Cadre Through Productive Labor in Hsieh-yang Hsien, by RWD of the CCP, 10 pp, (pp 60-65).

Experience of Cadre Participation in Labor in the Anshan Area, by CCP, 9 pp, (pp 66, 67).

Three Relevant Foints Drawn From a Survey of Pedagogical Thinking, by Lo Yuan-hsiang, 11 pp. CHINESE, np, Kuang-ming Jih-pao, 27 Jul 1962, p 2.

JPRS 21074

Chinese-English Dictionary, by German Dept, Peking Institute of Foreign Languages, 830 pp. GERMAN, bk, Chinesish-Deutsches Worterbuch, 1960.

JPRS 20904

The Quality of Arts, 5 pp.
MONGOLIAN, np, Unen, 7 Jun 1963, p 1.

JPRS 20767

School Children Must be Given Restful Vacations, 5 pp. MONGOLIAN, np. Unen, 16 Jun 1963, p 1.

JPRS 20920

The Nature of Our Peasants, by Ngo Thuyen, 10 pp. VIETNAMESE, per, Hoc Tap, Jul 1963.

JPRS 20821

Characteristics and True Nature of Vietnamese Laboring Peasants, by Nguyen Chan, 6 pp. VIETNAMESE, per, <u>Hoc Tap</u>, No 7, 1963.

LATIN AMERICA

Economic

New Cuban Industries Described, 12 pp. SPANISH, per, Bohemia, Vol LV, No 30, 1963, pp 36-51.

JPRS 20752

Administration Law of the Ministry of Domestic Trade, 6 pp. SPANISH, per, Gaceta Oficial, Vol LXI, No 66, 1963, pp 3501-3503.

JPRS 20342

Laundry and Cleaning Prices Set, 5 pp. SPANISH, per, <u>Gaceta Oficial</u>, Vol LXI, No 79, 1963, pp 4179-4181.

JPRS 20342

Selected Articles From the Spanish Periodical Gaceta Oficial de la Republica de Cuba.

JPRS 20351

No 4, 1963. Cuban-Polish Trade Agreement for 1962, 7 pp, (pp 4229-4231).

Cuban-Rumanian Agreement for Technical Assistance, 6 pp, (pp 4285-4287).

Cuban-Rumanian Cultural Exchange Agreement, 1961-1962, 11 pp, (pp 4288-4291).

No 5, 1963. Projected Cuban-Czechoslovakian Trade Agreement for 1962, 17 pp, (pp 4341-4352).

Plan for Implementing a Cultural Agreement Between Cuba and Bulgaria in 1962, 10 pp, (pp 4397-4400).

Commercial Exchange Agreement Between Hungary and Cuba for 1962, 7 pp, (pp 4453-4455).

Commercial Exchange Agreement Letween Cuba and Korea, 6 pp, (pp 4455-4457).

Latin America Economic (Contd)

ANAP Fighting for Fulfillment of Agricultural Production Plans, 10 pp.
SPANISH, np, Hoy, 8 Aug 1963, p 5.

The Third People's Sugar Cane Harvest, by Gerardo Bernardo, 21 pp.
SPANISH, np, Hoy, 11 Aug 1963, pp 1-6.

JPRS 20924
Clothing Production up 47% Over Last Year, by Pedro Rojas, 5 pp.
SPANISH, np, Hoy, 14 Aug 1963, p 5.

JPRS 20985

Political

Resolution of the Central Committee of the
Communist Party of Brazil: "Reply to Khrushchev",
by CC of the CP of Brazil, 10 pp.
PORTUGUESE, np, A Classe Operaria, 1-15 Aug 1963,
p 5.

Guevara on the Peiping-Moscow Conflict, by
Ernesto Che Guevara, 5 pp.
SPANISH, per, Marcha, 2 Aug 1963, p 15.

JPRS 20789

Reader Discusses Marxist-Leninst Theory of
Revolution as Applied to Uruguay, by
Carlos Novello, 5 pp.
SPANISH, per, Marcha, Vol XXIV, No 1168,
9 Aug 1963, p 2.

JPRS 20978

Cuba Issues Note of Protest to United States of America, 14 pp.

SPANISH, np, El Mundo, 21 Jul 1963, p 1, 2.

JPRS 20854

Program for the Fourth National Congress of Education Councils, 11 pp.
SPANISH, np, El Mundo, 21 Jul 1963, p 10.

JPRS 20854

Chilean Daily Analyzes the Struggle in the Communist Movement, by Vendredi, 6 pp.
SPANISH, np, Las Noticias de Ultima Hora, Santiago de Chile, 1 Aug 1963, pp 2, 12; 2 Aug 1963, p 2;
3 Aug 1963, p 2, 4.

JPRS 20978

Colombian Newspaper Sees Breakup of Sino-Soviet
Bloc, 10 pp.
SPANISH, np, El Pais, 4 Aug 1963, pp 1, 8.

JPRS 20978

Latin America Political (Contd)

Mexican Writer Sees USSR More Correct Than China, by Antonio Rodriguez, 5 pp. SPANISH, per, Siempre, No 526, Jul 1963, pp 28, 29.

JPRS 20705

The Threat of Stalinism in Latin America, by Victor Alba, 6 pp.
SPANISH, per, Siempre, 31 Jul 1963, p 39.

JPRS 20848

Sociological

Organization of America States, Committee for Cultural Action, 9 pp.

SPANISH, rpt, Organizacion de Los Estados

Americanos, Comite de Accion Cultural, 1963,
Encl No 1 to Desp A-285, Mexico.

Dept of State

Delegations Arrive in Cuba for 26 July, 5 pp. SPANISH, np, Revolution, 25 Jul 1963, pp 1, 4.

JPRS 20773

WORLD WIDE

Economic

Demand Elasticity in Socialist Foreign Trade, by Imre Vajda, 16 pp. HUNGARIAN, per, Kozgazdasagi Szemle, Vol X, No 7, 1963, pp 765-783.

JPRS 20766

Military

Radio in Projectiles, by Jozef Sojkowski. POLISH, np. Zolnierz Polski, No 18 (779), 5 May 1963, p 12.

*ACSI I-3310 ID 2246270 525th MI Gp

SCIENTIFIC

Aerospace

High Speed Aerodynamics, by A. P. Mel'nikov, 88 pp. RUSSIAN, bk, Aerodinamika Pol'shikh Skorostey, Voyennoye Izdatel'stvo Ministerstva Oborony SSSR, Moscow, Chapters V, VI, 1961, pp 94-132, 133-153. 9685406

FTD-TT-63-394

What Is an Astronaut?, 10 pp.
RUSSIAN, bk, Pnevnik Letchika Kosmonavta, No 2,
Dec 1962, pp 22-26.

JPRS 20967

Physical Principles of Rocket Flight, by A. A. Dmitriyevskiy, V. N. Koshevoy, 89 pp. RUSSIAN, bk, <u>Fizicheskiye Osnovy Poleta Raket</u>, Moscow, 1962, pp 1-80. 9685413

FTD-TT-63-345

Rocket Flight Into Space, by I. A. Merkulov, 92 pp. RUSSIAN, bk, Polet Raket v Mirovoye Prostranstvo, Moscow, 1958, pp 1-88. 9685407

FTD-TT-63-315

Present and Future Aspects of Space Travel, by Boris V. Lyapunov, Nikolay A. Nikolayev, 209 pp. RUSSIAN, bk, Skovoz Ternii k Zvezdam, Moscow, 1962, pp 1-176.

JPRS 20892

Determining Ephermerides of Man-Made Earth Satellites at Point of Raprochement, by Ya. E. Eynasto, S. A. Kutusov, 13 pp. RUSSIAN, per, Byull Stantsiy Opticheskogo Nablyudeniya Iskusstvennykh Sputnikov Zemli, No 10, 1960, pp 12-23. 9685392

FTD-TT-63-545

On Conditions of Radio Communication in High and Middle Latitudes, by Ye. Ye. Goncharova, M. V. Kiseleva, 16 pp.
RUSSIAN, per, Geomagnetizm i Aeronomiya, Vol III, No 1, 1963, pp 94-103. 9685415

FTD-TT-63-443

The Ballistic, Rocket Straddled the Target, by M. N. Vasil'yev, 5 pp. RUSSIAN, np, Pravda, No 48, 17 Feb 1963, p 4. 9685514

FTD-TT-63-609

Brief Diary of Flights of Cosmonauts, by V. F. Bykovskiy, V. V. Tereshkova, 5 pp. RUSSIAN, per, Priroda, No 7, 1963, pp 1-13.

Press Conference on Flights of Vostok-, 7 pp. RUSSIAN, per, Priroda, No 7, 1963, pp 14-18.	JPRS 21138
Cosmic Flights and Ionizing Radiation, by A. V. Lebedinskiy, Yu. G. Nefedov, 8 pp. RUSSIAN, per, Priroda, No 7, 1963, pp 19-24.	JPRS 21138
Aerodynamic Heating, by V. Votyakov, V. Shumyatskiy, 5 pp. RUSSIAN, np, Sovet Aviats, 14 Apr 1959, p 2. 9685396	FTD-TT-63-390
Hypersonic Flow Past Axisymmetric Bodies Flying at an Angle of Attack, by B. B. Minostsev, 20 pp. RUSSIAN, per, Trudy Inst Issledovaniya po Mekhanike i Prikladnov Matematike, No 7, 1961, pp 136-151.	FTD-TT-63-406
Method of Considering Relaxation in the Problem of Directing a Flow Around a Cone, by V. N. Arkhipov, K. S. Khroshko, 8 pp. RUSSIAN, per, Zhur Prik Mekh i Tekh Fiz, No 6, 1962, pp 121-124. 9686825	FTD-TT-63-655
This is How It All Began, by I. Merkulov, 9 pp. RUSSIAN, per, Znaniye-Sila, No 9, 1962, pp 4-6. 9685516	FTD-TT-63-612
Control of Cosmic Ship, by B. Dobronravova, 7 pp. CZECH, per, <u>Kridla Vlasti</u> , No 11, 29 May 1963, pp 322, 323. 9686809	FTD-TT-63-718
The Photogrammetric Aircraft, MD-12F, by Bogdan Piatkowski, 7 pp. POLISH, per, Skrzydlata Polska, No 11, 1963, pp 6-8. 9686807	FTD-TT-63-415
A Brilliant Astronautical Achievement, Vostok-3 and Vostok-4 in Simultaneous Flight, by Florin Zaganescu, 11 pg.	
RUMANIAN, per, Stiinta si Tehnica, No 8, 1962, pp 24, 25, 45. 9684911	FTD-TT-63-306

Scientific Agriculture

Consistently Applying the Leninist Principle of Material Incentive on Kolkhozes and Sovkhozes, 8 pp.

RUSSIAN, per, Ekon Sel'skogo Khoz, 5 May 1963, pp 1-6.

JPRS 20828

Method of Calculating Comparable Prices for Farm Produce, by L. Grushetskiy, 9 pp. RUSSIAN, per, Planovoye Khoz, No 6, 1963, pp 64-70.

JPRS 20828

Antibiotics in Agriculture, by A. Sarkisov, 5 pp. RUSSIAN, np, Pravda, 27 May 1963.

JPRS 20828

Calculating Prime Cost of Kolhoz Output, by A. Silin, 17 pp.
RUSSIAN, per, Vest Statistiki, No 5, 1963, pp 28-38.

JPRS 20828

Activities of the Institute for Piscicultural Research and Planning, by Aurelia Nicolau, G. Rosca, 9 pp.
RUMANIAN, per, Industria Alimentara (Produse Animale), Vol II, No 4, 1963, pp 111-113.

JPRS 20966

Specifications for Grading, Nomenclature, and Classification of Beef Cattle and By-Products, 13 pp. SPANISH, per, Diario Oficial, Vol CCLVIII, No 12, 16 May 1963, Encl No 1 to AGR-18, Amembassy, Mexico.

USDA

New Methods of Preserving Perishable Foods and Their Application to Our Environment, by Werther Nogueira. SPANISH, per, Revista de Ingenieria, No 649, 650, Dec 1962, pp 72-75.

*ACSI I-3302 ID 2244438

Biological & Medical Sciences

Electronics and Medicine, by Ye. B. Babskiy, 52 pp. RUSSIAN, bk, Elektronika Dlya Biologov i Medikov, 1962, pp 9-70.

JPRS 20968

Radiation Injureis and Compensation of Disturbed Functions: Study Materials of Initial Reactions of an Organism Under the Influence of Ionizing Radiation in Small and Large Doses, by Yu. G. Grigor'yev. RUSSIAN, bk, Luchevyye Porazheniya i Kompensatsiya Narushennykh Funktsiy, Moscow, 1963, 20! pp.

*FTD-TT-63-934

Data From the Conference Dealing in Methods of Physiological Investigations of Human Beings. RUSSIAN, bk, Materialy Konferentsii po Metodam Fiziologicheskikh Issledovaniy Cheloveka, Institut Gigeny Truda i Profzabolevaniy AMN SSSR, Moscow, 1962, pp 15-23, 32-36, 40-42, 65-68, 83-85, 88, 89, 98-108, 163-165, 186-194, 199-202, 207.

*FTD-TT-63-916

Anti-Bacterial Immunity and Radio-Resistance, by N. N. Klemparskaya, N. V. Rayeva, et al. RUSSIAN, bk, Protivobakteriynyy Immunitet i Radioustoichivost, Moscow, 1963, 119 pp.

*FTD-TT-63-933

The Trawl Fishery for Rockfish in the Bering Sea, by A. V. Lestev.

RUSSIAN, bk, Sakhalinskoe Otdel Tikhookeanskogo
Nauch Issled Inst Morskogo Rybnogo Khoz i
Okeanografii, 1961, 26 pp.

Dept of Interior QH301 C273 No 439

Anthrox, by B. N. Pastukhov, (NY-7801) RUSSIAN, bk, Sibirskaya Yazva, Moscow, 1962, pp 1-148.

*JPRS

Changes in the Pigmentation and Embryogenesis in Pekin Ducks Under the Influence of the Introduction of Alien Cell Nuclei, by A. A. Chilingaryan, E. F. Pavlov.
RUSSIAN, per, Agrobiologiya, No 6, 1960, pp 903-910. 9211333

USDA Tr A-1394

Quantitative Study of Frog Oocytes in Connection With Some Morphologic and Cyochemical Problems, by P. V. Makarov, 12 pp.
RUSSIAN, per, Arkhiv Anatomii, Gistologii i Embriologii, Vol XLIV, No 6, 1963, pp 21-29.

JPRS 20980

Nuclein Metabolism in Regeneration of Skeletal Musculature Under Various Conditions of Roentgen Irratiation, by Ye. V. Dmitriyeva, 12 pp. RUSSIAN, per, Arkhiv Anatomii, Gistologii i Embriologii, Vol XLIV, No 6, 1963, pp 40-47.

JPRS 20997

Morphological Basis for the Ultrasonic and Conic Detection Characteristics of the Dolphin, by V. P. Zvorykin, 17 pp.
RUSSIAN, per, Arkhiv Anatomii, Gistologii i Embriologii No 7, 1963, pp 3-17.

JPRS 20038

Postmortem Discovery of Radioisotope Contamination of Man, by D. A. Ulitovskiy, 6 pp. RUSSIAN, per, Arkhiv Patologii, Vol XXV, No 6, 1963, pp 67-71.

JFRS 20988

Changes in the Peripheral Nerve Trunks From the Effect of Vibration, Experimental Study, by N. I. Karpova, 6 pp.
RUSSIAN, per, Arkhiv Patologii, No 7, 1963, pp 49-53.

Neoplastic Diseases According to Autopsy Data of the Chair of Pathological Anatomy of the First Moscow Medical Institute for 20 Years, 1939-1958, by N. P. Volgareva, 13 pp.

RUSSIAN, per, Arkhiv Patologii, No 7, 1963, pp 72-80.

JPRS 21040

Some Consequences of the Genetic Code, by M. V. Volkenshteyn.
RUSSIAN, per, Biofizika, Vol VIII, No 3, 1963, pp 394, 395. 9211332

USDA T:: A-1393

On the Conditions of Formation of an Artificial Complex of Ribonuclease With Deoxyribonuclease Acid, by T. N. Kopylova-Sviridova, 9 pp. RUSSIAN, per, Biokhimiya, Vol XXVIII, No 2, 1963, pp 353-360.

NIH 7-14-63

On the Tenth Anniversary of the Study of Marine Algae in China, by Ch'eng-k'uei Tseng. RUSSIAN, per, Botan Zhur, Vol XLV, No 9, 1960, pp 1395-1399. 9211334

USDA Tr A-1395

Kyzyl-Kumy Desert Station, by I. F. Momotov, 6 pp.
RUSSIAN, per, Botan Zhur, Vol XLVII, No 12, 1962, pp 1858-1862.

JPRS 20857

Botanical Garden of the All-Union Institute of Herbs and Aromatic Plants, by P. N. Kibal'chich, 6 pp.
RUSSIAN, per, Botan Zhur, Vol XLVII, No 12, 1962, pp 1862-1864.

JPRS 20857

Features Specific to Electromyograms at Voluntary Contraction of Muscles in Old Age, by F. E. Grishko, 7 pp.
RUSSIAN, per, Byul Eksper Biol i Med, No 3, 1962, pp 14-19.

NIH 7-17-63

On the Mutation Theory of Aging, by Yu. Ya. Kerkis. RUSSIAN, per, Byul Mosk Obshch Ispytateley Prirody, Otdel Biolog, Vol LXVIII, No 2, 1963, pp 126-129. 9211337

USDA Tr A-1398

The Properdin Content of Fish, by V. I. Luk'yanenko, G. A. Mikheyeva, 5 pp.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXLVIII, No 2, 1963, pp 469-472.

Selected Articles From the Russian Periodical Eksperimental naya Khirurgiya i Anestesiologiya, No 3, 1963.

The Effect of Certain Endocrine Preparations of	n the
Occurrence of Pathological Processes in the Br	east,
by A. A. Nesterova, 5 pp, (pp 16-19).	

JPRS 21043

Vascular Alloplasty, by N. V. Dobrova, N. A. Bykova, et al, 7 pp, (pp 41-44).

JPRS 21070

Change in the Protein Fractions and Rate of Muscle Protein Synthesis When a Defect in the Muscle is Replaced With Frozen-Dried Ground-up Muscle Tissue and Protein Preparations, by A. V. Pogosova, L. S. Romanova, et al, 5 pp, (pp 74-76).

JPRS 21042

Anesthesia for Operations and Painful Changes of Dressings, by T. M. Darbinyan, F. R. Chernyakhovskiy, 10 pp, (pp 77-82).

JPRS 21069

The Use of Radioactive Isotopes for Tagging the Stinkbug Eurygaster Integriceps Put. Hemiptera, Pentatomidae, by S. V. Andreyev, V. A. Molchanova, et al, 15 pp.
RUSSIAN, per, Entomolog Obozreniye, Vol XLII, No 1, 1963, pp 39-48.

JPRS 20987

Physiological Mechanism of the Effect of Organic Phosphorus Compounds, by Yu. Ye. Mandel'shtam, 11 pp. RUSSIAN, per, Entomolog Obozreniye, Vol XLII, No 2, 1963, pp 329-336.

JPRS 21087

Selected Articles From the Russian Periodical Fiz Zhur SSSR imeni I. M. Sechenova.

Vol XLIX, No 5, 1963, pp 643-647. Gas Exchange Dynamics in White Mice Exposed to High Partial Pressure of Oxygen, by I. S. Breslav, A. G. Zhironkin, et al, 8 pp. JPRS 20791

Vol XLIX, No 6, 1963. An Eletrometric Method of Determining the Oxygen Content of Expired Air in Small Animals, by S. A. Yevdokimov, L. A. Isaakyan, et al, 5 pp, (rp 767-770).

JPRS 21144

A Contribution to Techniques for Investigating Cardiac Excitability, by V. V. Sysoyev, 5 pp, (pp 770-773).

JPRS 21145

A New Method for Determining Venous Tonus, by D. A. Il'inskiy, 6 np, (pp 774-777).

The Feasibility of Utilizing Sewage Water Containing Natural Radioelements for the Irrigation of Fields, by L. I. Loginov, 5 pp. RUSSIAN, per, Gig i San, Vol XXVIII, No 6, 1963, pp 20-23.

JPRS 20871

Concerning the Problem of the Combined Effect of a High-Frequency Electromagnetic Field and X-Ray Irradiation Under Industrial Conditions, by Yu. A. Osipov, R. N. Vol'fovskaya, et al, 7 pp. RUSSIAN, per, Gig i San, Vol XXVIII, No 6, 1963, pp 35-38.

JPRS 20872

Bioelectrical Activity of Muscles in Occupational Neuro-Muscular Diseases, by L. G. Okhnyanskaya, 9 pp. RUSSIAN, per, Gig Truda i Professional Zabolevaniya, Vol VII, No 7, 1963, pp 13-19.

JPRS 21034

An Important Stage in the Development of Biological Science, by N. M. Sisakyan, 7 pp. RUSSIAN, per, <u>Iz Ak Nauk SSSR</u>, No 3, 1963, pp 337-347.

JPRS 20943

Medical and Biological Research on the Factors in Space Flight, by Yu. M. Volynkin, P. P. Saksonov, 17 pp. RUSSIAN, per, Iz Ak Nauk SSSR, No 3, 1963, pp 405-418.

JPRS 20943

Current Problems of Helminthological Science, 29 pp. RUSSIAN, per, <u>Iz Ak Nauk SSSR, Ser Biolog</u>, No 4, 1963, pp 497-634.

JPRS 21099

For the Further Development of Biological Science and Strengthening Its Connection With Practice, by V. G. Kocherezhkin, 10 pp. RUSSIAN, per, Iz Ak Nauk SSSR, Ser Biolog, No 4, 1963, pp 613-620.

JPRS 21098

Excitation of Living Cells as a Disturbance of the Steady State of Open Systems, by V. Ya. Aleksandrov, 10 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Biolog, No 4, 1963, pp 621-629.

A Review of Investigations on the Far-Eastern Salmons, by I. Pravdin.
RUSSIAN, per, Iz Tikhookeanskogo Nauch Issled
Inst Rybnogo Khoz i Okeanografii, Vol XVIII, 1940,
pp 5-105.

Dept of Interior QH301 C273 No 371

The Coho Salmon, Oncorhynchus Kisutch Walbaum, a Biological Sketch, by V. I. Gribanov. RUSSIAN, per, Iz Tikhookeanskogo Nauch Issled Inst Rybnogo Khoz i Okeanografii, Vol XXVIII, 1948, pp 43-101.

Dept of Interior QH301 C273 No 370

Selected Articles From the Russian Periodical Khirurgiya, Vol XXXIX, No 7, 1963.

JPRS 21037

Pro and Con Fluothane Anesthesia, by V. M. Yurevich, 11 pp, (pp 25-33).

Electroencephalography in Superficial Fluothane Anesthesia, by V. Yu. Ostrovskiy, R. G. Alekhina, 8 pp, (pp 39-43).

The Problem of Reflex Cardiac Arrest During Anesthesia, by Ye. G. Mil'ner, 5 pp, (pp 80-82).

Dangers and Complications in a Special Examination of Patients With Lung Diseases, by O. S. Shkrob, V. S. Pomelov, 10 pp, (pp 106-112).

Angiopneumography in the Diagnosis of the Middle-Lobe Syndrome, by A. G. Kochetkova, 10 pp, (pp 115-120).

Twenty-Five Years of Work of the All-Union Scientific Research Institute of Medical Instruments and Equipment, by Yu. F. Kabatov, 7 pp.
RUSSIAN, per, Medit Prom SSSR, No 9, 1962, pp 8-12.

JPRS 20857

Investigations of the Abundance of Saprophytic Bacteria in the Lake Dalnee, by E. M. Krokhin. RUSSIAN, per, Mikrobiologiya, Vol XXIII, No 1, 1954, pp 49-52.

Dept of Interior OH301 C273 No 419

A Study of the Adaptation of Individual Species of Saprophytic Microflora to Gaseous Hydrocarbon Oxidation, by Z. P. Telegina, 7 pp.
RUSSIAN, per, Mikrobiologiya, Vol XXXII, No 3, 1963, pp 398-402.

On the True Nature of a New Class of Krassilnikovae (Kriss) Microorganisms, by Yu. I. Sorokin, 17 pp. RUSSIAN, per, Mikrobiologiya, Vol XXXII, No 3, 1963, pp 425-433.

JPRS 20760

Permissible Susceptibility of Cultivated Plant Varieties to Infectious Diseases, by S. E. Grushevoy. RUSSIAN, per, Nauch Dok Vysshey Shkoly - Biolog Nauk, No 1, 1963, pp 100-105.

*ACSI I-3319 ID 2246279

Resting Current of Plant Cells and Its Changes Upon Infection, by B. L. Rubin, V. G. Shipilov. RUSSIAN, per, Nauch Dok Vysshey Shkoly - Biolog Nauk, No 1, 1963, pp 125-127.

*ACSI I-3324 ID 2246283

Parasitic Diseases of Young Pacific Salmon in Fish Hatcheries of the Far East, by E. A. Bogdanova. RUSSIAN, per, Nauch-Tekh Byul Gosniorkh, No 11, 1960, pp 49-52.

Dept of Interior QH301 C273 No 391

Information on the Biology of Pink Salmon Acclimatized in the Basins of the White and Barents Seas, by V. V. Azbelev, S. S. Surkov, et al. RUSSIAN, per, Nauch-Tekh Bul Polyarnogo Inst Nauch Rybnogo Obshch, No 2, 3, 1962, pp 37, 38.

Dept of Interior OH301 C273 No 437

A Visit to the Institute of Physiology imeni I. P. Pavlov, by I. Kurtsin, 9 pp. RUSSIAN, per, Nauka i Tekhnika, No 5, 1963, pp 28-31.

JPRS 20857

Studies in Animal Behavior, by Karoy Akosh, 13 pp. RUSSIAN, per, Nauka i Tekhnika, No 6, 1963, pp 14-18.

JPRS 21149

New Drugs Developed by Institute of Fine Organic Chemistry of the Academy of Chemical Sciences Armenian SSSR, by L. Zhuruli, 6 pp. RUSSIAN, per, Nauka i Tekhnika, No 6, 1963, pp 26, 27.

JPRS 21148

The Gonadotropic Cycle in Biting Midges of the Genus Culicoides, Diptera, Heleidae, in the Karelian ASSR, by V. M. Glukhova, 14 pp. RUSSIAN, per, Parazitolog Sbornik Zool Inst Ak Nauk SSSR, Vol XVIII, 1958, pp 239-254. 9211749

NIH 8-6-63

Genetics of Tissue Transplantation, by O. S. Frankfurt, 30 pp. RUSSIAN, per, Patolog Fiz i Eksper Terapiya, Vol V,

1961, pp 74-81.

Navy Tr 3564 NMS 804

The Problem of Transplantation of Hemopoietic Tissue in the Treatment of Radiation Injury, by P. D. Gorizontov, M. F. Sbitneva, et al, 9 pp. RUSSIAN, per, Patolog Fiz i Eksper Terapiya, No 3, 1963, pp 15-20.

JPRS 20948

Critical Review of Soviet Book on Etiology, by S. M. Pavlenko, 11 pp.
RUSSIAN, per, Patolog Fiz i Eksper Terapiya, No 3, 1963, pp 77-82.

JPRS 21024

On the Food of Far-Eastern Chars, by A. K. Savvaytova. RUSSIAN, per, Rybnoye Khoz, Vol XXXVIII, No 2, 1960, pp 9-11.

Dept of Interior QH301 C273 No 423

Rockfish in the Gulf of Alaska, by T. G. Lyubimova. RUSSIAN, per, Rybnoye Khoz, Vol XXXVII, No 9, 1961, pp 27-30.

Dept of Interior QH301 C273 No 441

Rapid-Freezing Methods in the Soviet Fishing Industry, 7 pp.
RUSSIAN, per, Rybnoye Khoz, Vol XXXIX, No 4, 1963,

JPRS 20813

Problems Relative to the Organization and Statistics of the Activity of Urban Medical Districts, by I. B. Anan'na, V. K. Ovcharov, et al, 8 pp. RUSSIAN, per, Sovet Zdravookhraneniye, No 6, 1963, pp 7-12.

JPRS 20993

Method of Injections and Its Value in the Transformation of the Nature of Cereal Crops, by I. A. Petrov. RUSSIAN, per, Trudy Karel'skiy Filial, Ak Nauk SSSR, Vol XVII, 1959, pp 5-37. 9211335

USDA Tr A-1396

Information on the Biology and Survival of Salmon of the Kola Peninsula, by V. V. Azbelev. RUSSIAN, per, Trudy Poliarnogo Nauch Issled Inst Morskogo Rybnogo Khoziaistva i Okeanografii, imeni N. M. Knipovich, No 12, 1960, pp 5-70.

Dept of Interior QH301 C273 No 440

Selected Articles From the Russian Periodical Trudy Sevastopol Biolog Stantsii, Vol XIV, 1961.

Distribution of Heterotrophic Bacteria in Some Seas of the Mediterranean Basin, by M. N. Lebedeva, E. Ya. Anishchenko, et al, 36 pp, (pp 3-32).

JPRS 20793

Statistical Analysis of the Differentiating Ability of Some Black-Sea Fish, by M. P. Aronov, 8 pp, (pp 286-291).

JPRS 20794

JPRS 20796

Protein, Fat, Carbohydrate, and Ash Content of Some Mass Black Sea Planktonic Algae Grown in Cultures, by L. A. Lanskaya, T. I. Pshenina, 15 pp, (pp 292-302).

Selected Articles From the Russian Periodical Trudy Sevastopol Biolog Stantsii, Vol XIV, 1961. (Contd)

Destruction of the Film-Forming Base of Antifouling Paints by Marine Microorganisms, by M. A. Dolgopolskaya, A. Z. Shapiro, et al, 8 pp, (pp 303-308).

JPRS 20797

Distribution of P32, S35, Sr90, Y91, and Ce144 Between Sea Water and Bottom Under Experimental Conditions, by A. D. Akamsin, 6 pp, (pp 309-313).

JPRS 20795

Reproduction of the Mass One-Celled Alga Prorocentrum Micans Ehr. in the Presence of S35, by G. G. Polikarpov, 5 pp, (pp 329-333).

JPRS 20795

The Possible Influence of the Nutrition of Young Cod on Its Abundance, by I. Ponomarenko. RUSSIAN, per, <u>Trudy Soveshchanii</u>, No 13, 1961, pp 301-306.

Dept of Interior SH211 E82 No 487

Significance of the Phase of Mixed Feeding for the Survival of Pike Larvae, by A. A. Kostomarova. RUSSIAN, per, <u>Trudy Soveshchanii</u>, No 13, 1961, pp 344-347.

Dept of Interior SH211 E82 No 480

The Adaptive Significance of Qualitative Differences Between Larvae of the Sakhalin Herring, by I. V. Nikitinskaya.

RUSSIAN, per, Trudy Soveshchanii, No 13, 1961, pp. 391, 392.

Dept of Interior SH211 E82 No 486

Physiological Adaptations of Fishes to New Conditions of Existence, by T. Privolnev. RUSSIAN, per, Trudy Soveshchanii ikh Komissii Ak Nauk SSSR, No 3, 1954, pp 40-49.

Dept of Interior Q1301 C273 No 422

The Hydrology of the Komandorsky-Kamchata Region and the Salmon Migrations During the Spring and Summer, by V. A. Burkov. RUSSIAN, per, Trudy Soveshchanii ikh Komissii Ak Nauk

SSSR, No 10, 1960, pp 165-172.

Dept of Interior QH301 C273 No 356

On the Relation Between Rate of Growth and Population Density in Sockeye Salmon, by F. V. Krogius. RUSSIAN, per, Trudy Soveshchanii ikh Komissii Ak Nauk SSSR, No 13, 1961, pp 132-146.

Dept of Interior QH301 C273 No 411

Results of the Chinese-Soviet Zoological-Botanical Expeditions to South-Western China, by E. P. Narchuk, 17 pp.
RUSSIAN, per. Trudy Vsesovuznove Entemologich Chalich.

RUSSIAN, per, Trudy Vsesoyuznoye Entomologich Obshch, Ak Nauk SSSR, Vol XLI, No 3, 1962, pp 672-684.

Seventeenth Session of the General Conference of the Academy of Medical Sciences USSR, 4-9 February 1963, 135 pp.
RUSSIAN, per, Vest Ak Medit Nauk SSSR, Vol XVIII, No 6, 1963, pp 1-88.

JPRS 20826

Studies of Surgery in Burn Cases, 9 pp. RUSSIAN, per, Vest Khirurgii imeni I. I. Grekova, Vol XC, No 5, 1963, pp 83-92.

JPRS 20941

Experience in the Use of Polyvinol for Thoracic Surgery, by V. M. Tavrovskiy, 8 pp. RUSSIAN, per, Vest Khirurgii imeni I. I. Grekova, Vol XC, No 6, 1963, pp 14-18.

JPRS 21089

Selected Articles From the Russian Periodical Veterinariya, Vol XL, 1963.

No 1, pp 79-81. 9211324 An Apparatus for the Formation of Aerosols, by V. S. Yarnykh. USDA Tr V-1837

No 4, pp 91, 92. 9211325 The First Graduation of Veterinary Surgeons Who Studies by Correspondence, by I. Sharabrin, D. Khavchenko. USDA Tr V-1838

No 5, pp 30-32. 9211323 Aerosol Immunization of Piglets Against Hog Cholera, by I. I. Kulesko, A. T. Shikov.

USDA Tr V-1836

No 6, pp 6-10. To Strengthen Veterinarian Service and State Control, by A. G. Ginzburg. *USDA

Selected Articles From the Russian Periodical Voprosy Iktiologii, Vol I, No 4, 1961.

Problem of Reservoir Use by Fisheries in Various Geographical Zones, by A. G. Podduvnyy, M. A. Formunatov, 20 pp, (pp 599-611).

JPRS 20969

Research Problems in Pond Pisciculture, by F. G. Martyshev, 13 pp, (pp 616-621).

JPRS 20969

Increasing the Catch of Fish in Marine Waters, by R. S. Rass, 25 pp, (pp 622-639).

Selected Articles From the Russian Periodical Voprosy Ikhtiologii, Vol I, No 4, 1961. (Contd)

Results of Acclimatization of Far-Eastern Fish Poisonous to Plants and Measures for Their Further Assimilation and Study in New Regions, by B. V. Verigin, 15 pp, (pp 640-649).

JPRS 20969

Concerning the Causes of Fluctuations in the Abundance of Fishes, by G. V. Nikolsky, (pp 659-665).

Dept of Interior QH301 C273 No 389

Spawning Population Types and Several Problems of Research Into Commercial Fish Population Dynamics, by Yu. Ye. Lapin, 21 pp, (pp 666-680).

JPRS 20969

Experience in Cultivating Brachionus Rubens Ehrbg. Rotifers as Food for Young Fish, by G. L. Vasil'yeva, G. L. Okuneva, 12 pp, (pp 752-761).

JPRS 20969

Effect of Microwaves on the Cardio-Vascular System of a Healthy Person, by An. Obrosov, L. A. Skurikhina, et al, 12 pp. RUSSIAN, per, Voprosy Kurortologii, Fiziotherapii i Lechebnoy Fizicheskoy Kul'tury, Vol XXVIII, No 3,

JPRS 21067

The Use of the Betatron and Radioactive Gold in Complex Treatment of Brain Tumors, by V. M. Ugryumov, V. N. Shamon, et al, 5 pp.
RUSSIAN, per, Voprosy Neyrokhirurgii, No 3, 1963, pp 37-41.

JPRS 21086

Studies in Nutrition, 30 pp.
RUSSIAN, per, Voprosy Pitaniya, Vol XXII, No 4,
Jul-Aug 1963, pp 3-6, 12-24.

May-Jun 1963, pp 223-229.

JPRS 21171

The Main Results of the Activity of the Dushanbe Institute of Epidemiology and Hygiene in 30 Years, by M. Ya. Rasulov, 9 pp. RUSSIAN, per, Zdravookhraneniye Tadzhikistana, No 1, 1963, pp 3-9.

Selected Articles From the Russian Periodical Zhur Mikrobiol Epidemiol i Immunobiol.

Vol XXXIII, No II, 1962, pp 11-16. Immunization of Man With Killed Q-Fever Vaccine, by Urakov, Shchetinin, 6 pp. ACSI I-8206-A ID 2224745

Vol XXXIV, No 6, 1963, pp 54-58. Experience in Using Television Microscopy for the Demonstration of Microorganisms, by M. P. Zykov, L. B. Bakinova, 7 pp. JPRS 20619

Vol XL, No 1, 1963. Improvement of the Culture Medium and Search for a Method of Purifying the Protective Anthrax Antigen, by N. I. Aleksandrov, N. E. Gefen, (pp 103-107). 9211320

USDA Tr V-1833

Experimental Study of Associated Anaerobic Toxoids. Communication IV. A Study of Immunological Effectiveness of Octa-Toxoids in Remote Revaccination, by G. V. Vygodchikov, A. A. Vorob'yev, et al, (pp 127-132). 9211321

USDA Tr V-1834

Vol XL, No 3, 1963, pp 120, 121. 9211322 Histologically Specific Subcutaneous Infiltrates Following FIISI Polyvaccine Administration, by N. N. Gol'dburt.

USDA Tr V-1835

Vol XL, No 4, 1963.
The Epidemiology of Tularemia in the Natural
Nidi of Krasnodarskiy Kray, by T. F. Ustin-Petrova,
14 pp, (pp 117-122).

JPRS 21104

The Biological Activity of Skin Tularin After Storage for Various Periods, by G. P. Uglovoy, 6 pp, (pp 128-131).

Characteristics of the Aquatic Fauna Composition in Relation to the Salinity of the Medium, by V. V. Khlebovich, 10 pp.
RUSSIAN, per, Zhur Obshchey Biol, Vol XXIII, No 2, 1962, pp 90-97.

JPRS 20807

Studies of Protection of Mammals Against Radiation, by A. Ya. Grayevskiy, N. F. Barakina, et al, 17 pp. RUSSIAN, per, Zhur Obshchey Biol, Vol XXIV, No 3, 1963, pp 182-193.

Testis Injury in Mature Mice as a Result of Single and Fractional Irradiation During the Period of Embryonic Development, by N. N. Kuznetsova, 5 pp. RUSSIAN, per, Zhur Obshchey Biol, Vol XXIV, No 3, 1963, pp 221-225.

JPRS 20981

Selected Articles From the Russian Periodical Zhur Vses Khim Obshch imeni D. I. Mendeleyeva, Vol VIII, No 1, 1963.

JPRS 21050

The Code of Protein Synthesis, by A. A. Bayev, 23 pp, (pp 2-11).

Transfer Soluble Ribonucleic Acids, by L. L. Kiselev, 27 pp, (pp 11-22).

Methods of Intracellular Control of the Biosynthesis of Ribonucleic Acids and Their Precursors, by K. A. Kafiani, 20 pp, (pp 23-32).

Organization of the Chromosome, by A. A. Prokof'yeva-Bel'govskaya, Yu. F. Bogdanov, 25 pp, (pp 33-46).

Molecular Mechanisms of Chemical Mutagenesis, by V. N. Krylov, 22 pp, (pp 46-55).

Recombination of Genetic Systems in Microorganisms, by S. Z. Mindin, V. V. Sukhodolets, 28 pp. (pp 56-68).

Genetic Variability in Viruses and Bacterio-Phages Under the Action of Radiation and Chemical Agents, by A. S. Kriviskiy, 24 pp, (pp 68-81).

Active Sites and the Nature of the Catalytic Action of Enzymes, by A. Ye. Braunsteyn, 28 pp, (pp 81-94).

Prospects for the Acclimatization of Fresh Water Fish in the USSR, by Ye. V. Burmakin, 11 pp. RUSSIAN, per, Zool Zhur, Vol XLII, No 6, 1963, pp 801-808. JPRS 20863

An Experiment on the Control of Wheat Rust by Fluoride-Barium Mixture, by Huang Kuang-ming, 12 pp. CHINESE, per, Chung-kuo Nung-yeh K'o-hsueh, No 4, 1963, pp 45-48.

JPRS 21150

Biophysics -- A New Branch in the Biological Sciences, by Shen Shu-min, 18 pp.
CHINESE np, Jen-min Jih-pao, 6 Aug 1963, p S.

Isolating the Trachoma Virus, by Chu Hsi-ying, 5 pp.

CHINESE, per, K'o-hsueh Ta-chung, No 7, 1963, pp 1-3.

JPRS 21090

The Status and Prospects for Research in Plant Tissue Culture, by Lo Shih-wei, 13 pp. GHINESE, per, K'o-hsueh T'ung-pao, No 1, 1963, pp 21-27.

JPRS 20975

Models of Nerve Cells, by M. ten Hoopen.

DUTCH, per, <u>Tijdschrift van het Nederlands</u>

Radiogenootschap, Vol XXVII, No 1, 1962, pp 17-32.

Navy Tr 3558 APL 840

Memory and Forgetting, by Jean-Claude Filloux, 152 pp. FRENCH, bk.

Walker & Co.

Contribution to the Study of Hypogonadotrophic Hypogonadism. Study Concerning an Associated Case of Friedreich's Disease, by Jean Andre-Claude Hamel, 24 pp.

FRENCH, rpt, <u>Doctorate of Medicine Thesis</u>, Paris Faculty of Medicine, 1958.

NIH 8-5-63

Memoir on the Extraordinary Degrees of Heat Which Man and Animals are Capable of Resisting, by M. Tillet, 24 pp. FRENCH, bk, Memoires de l'Academie Royale, 1764, pp 186-205. 9685420

FTD-TT-63-650

Yeasts Deparaffin Petroleum, Increase Its Value and Yield Proteins, by Jean Grive, 7 pp. FRENCH, rpt, Science Progres, Mar 1963, pp 107-113.

ACSI I-2700 ID 2235125

Attempt to Treat Charlotte Friend's Leukemia by Grafting Hematopoietic Cells of Isogenic Donors Vaccinated Against the Virus, by G. Mathe, J. L. Amiel, 5 pp.
FRENCH, per, Bulletin de l'Association Française pour l'Etude du Cancer, Vol XLIX, No 4, 1962, pp 416-420.

NIH 7-25-63

Electron Microscopy of the Sheaths and of the Prismatic and Interprismatic Structures of the Human Fetal Enamel, by J. Nalbandyan, R. M. Frank, 17 pp.
FRENCH, per, Bulletin du Groupement International

FRENCI, per, Bulletin du Groupement International pour la Recherche Scientifique en Stomatologie, Vol V, No 4, 1962, pp 523-542.

NIH 7-3-63

Scientific Biological & Medical Sciences (Contd) Physiology of the Hippocampus, by M. Jouvet, 7 pp. FRENCH, per, Colloques Internationaux du Centre National de la Recherche Scientifique, Vol CVII, 1962, pp 297-330. NIH 7-44-63 Study of Ocular Movements Observed in Man in the Course of Waking and of Sleep, by M. Jeannerod, J. Mouret, 5 pp. FRENCII, per, Comptes Rendus des Seances de la Societe de Biologie, Vol CLVI, No 8, 9, 1962, pp 1407-1410. NIH 7-24-63 Comparative Study of Methods of Control of Radioactive Medicines, by A. Heyndrickx, 6 pm. FRENCH, per, Journal de Pharmacie de Belgique, Vol XVII, 1962, pp 267-271. NIH 7-9-63 The Posterior Cleft Canal Constitution and Radiological Types in the Normal Subject, by J. Porot, R. Aubaniac, 25 pp. FRENCI, per, Journal de Radiologie d'Electrologie et Archives d'Electricite Medicale, Vol XXXIV, No 1, 2, 1953, pp 18-27. NIII 7-13-63 Cervical Lymphogranuloma, With Suspicion of Mediastinal Start, Healed Seventeen Years Ago, by G. Moppert, 6 pp. FRENCH, per, Revue Medicale de la Suisse Romande, Navy Tr 3563 Vol LXXVII, No 8, 1963, 4 pp. NMS 803 Muscular Lesions of Familial Periodic Paralysis, by Jean Emmanuel Gruner, 13 pp. FRENCH, per, Revue Neurologique, Vol CI, No 4, NTH 7-49-63 1959, pp 501-523. Man and the Living World, by Karl von Frisch, 304 pp. GERMAN, bk. Harcourt Pentastomida, by R. Heymons, 56 pp.

GERMAN, bk, Bronns: Klassen des Tierreichs, Berlin, Vol IV, Bk 1, 1935, 29 pp.

Navy Tr 3562 NMS 802

Isolation, Properties and Leukemogenic Action of Nucleic Acids From Virus-Induced Myeloid Loukemias, by II. Bielka, A. Graffi, 17 pp. CERMAN, per, Acta Biologica et Medica Germanica, Vol X, No 1, 2, 1963, pp 63-78.

NIH 7-4-63

Vol XII, No 3, 1962, pp 404-420,

The Snout and Stinging Act of the Rhodnius Prolixus, by R. Gegy, C. Kraus, 6 pp.
GERMAN, per, Acta Tropica, Vol IX, No 3, 1952, pp 272-276.

Electron Microscopic Investigation of the Behavior of a Parainfluenza-3 Virus Isolated From Cell Cultures of Calf Kidneys, by Eva Reczko, Konrad Bogel, 18 pp.

GERMAN, per, Archiv fuer die Gesamte Virusforschung,

NIH 7-2-63

NIH 7-26-63

Pharmacology of the Active Principles of the Kava Rhizome Piper Methysticum Forst, by H. J. Meyer, 36 pp.

NIH 8-1-63

GERMAN, per, Archives Internationales Pharmacodynamic, Vol CXXXVIII, No 3, 4, 1962, pp 505-533.

Intracellular Studies on the Effect of Inhibiting Potentials in the Motor Cortex. I. The Effect of Electrical Stimulation of Chapterific Thalamic Nuclei, by H. Lux, 21 pp.

GERMAN, per, Archiv fuer Psychlatrie und Zeitschrift fuer d Ges Neurologie, Vol CCIII, 1952, pp 648-666.

NIH 7-45-63

Blood Diet, Egg Production and Hibernation in the Female Mosquito, by O. Hecht, 21 pp. GERMAN, per, Archiv fuer Schiffs-und Tropenhygiene, Vol III, No 1-37, 1933, pp 125-211.

NIH 8-10-63

Observations on the Molting Process and Ca Economy in the Astacus Astacus (L) Crayfish, by R. Ryhanen, 15 pp. GERMAN, per, Archiv Soc Vanamo, Vol XVII, No 1, 1962, pp 25-38.

NIH 7-46-63

New Results of Clinical and Genetic Research on Imbecility, by Gerhard Koch, 32 pp. GERMAN, per, Arztliche Forschung, Vol XVII, No 1, 1963, pp 1-16.

NIH 7-16-63

Isolation of Merxine From the Hypobranchial Gland Extracts and Its Identification as Bera-/Imidazolyl-4(5)/-Acryl-Cholin, by V. Erspamer, O. Benati, 17 pp.
GERMAN, per, Biochemische Zeitschrift, Vol CCCXXIV, 1963, pp 66-73.

Navy Tr 3565 NMS 805

Diagnostic and Hemodynamic Problems in Aortic Stenosis, by O. Stampbach, F. Wyler, 27 pp.
GERMAN, per, Cardiologia, Vol XXXVIII, 1961, pp 112-141.

NIH 7-36-63

Contribution to the Biology of Pediculus Vestimenti, by H. Sikora, 15 pp. GERMAN, per, Centralblatt fuer Bakt Parasitologie und Infektionskr, Vol LXXVI, No 7, 1915, pp 523-535.	NIH	8-2-63
On Differential Diagnosis of the Hirsutism in Women, by Josef Charvat, Inge Gregorova, 9 pp. GERMAN, per, Endokrinologie, Vol XLIII, No 3, 4, 1962, pp 117-123.	NIH	8-7-63
Passive Permeability of Cell Membranes on the Question of the Penetration Through Pores, by H. Passow, 19 pp. GERMAN, per, Klinische Wochenschrift, Vol XLI, No 3, 1963, pp 130-138.	NIH	7-10-63
Active Transport Through Surface Barrier, by W. Wilbrandt, 24 pp. GERMAN, per, Klinische Wochenschrift, Vol XLI, No 3, 1963, pp 138-147.	NIH	7-6-63
The Effect of Nontoxic and Toxic Concentrations of Cardio-Active Glycosides on the Potassium Balance of Isolated Heart Preparations, by K. Greeff, K. Meng, 16 pp. GERMAN, per, Naunyn-Schmiedeberg's Archiv fuer Experimentelle Pathologie und Pharmakologie, Vol CCXXIV, 1962, pp 270-282.	MIH	7-37-63
Physiology, Biochemistry and Energetics of the Active Transport, by E. Heinz, 21 pp. GERMAN, per, Nauyn-Schmiedeberg's Archiv fuer Experimentelle Pathologie und Pharmakologie, Vol CCXLV, No 1, 1963, pp 10-28.	NIH	8-4-63
Contribution to Epidermolysis Bullosa Dystrophica With Changes of Teeth and Oral Mucous Membrane, by H. Matras, 9 pp. GERMAN, per, Osterreichische Zoologische fuer Stomatologie, Vol LX, No 4, 1963, pp 138-145.	NIH	7-20-63
Studies on the Smell Orientation of Bloodsucking Insects, by B. Schaerffenberg, E. Kupla, 11 pp. GERMAN, per, Osterreichische Zoologische Zeitschrift, Vol III, No 3, 4, 1951, 1952, pp 410-424.	NIH	7-1-63
Idiopathic Hypertrophic Subaortic Stenosis, by O. Stampbach, A. Senn, 14 pp. GERMAN, per, Schweizerische Medizinische Wochenschrift, Vol XCII, No 5, 1962, pp 125-130.	NIH	7-22-63

Scientific Biological & Medical Sciences (Contd)	
Cervical Vertebra Dislocations and Vertebral Artery, by K. Ohnsorge, 13 pp. GERMAN, per, Therapiewoche, Vol XIII, No 12, 1963, pp 464-469.	NIH 8-11-63
Influence of Combinations of Temperature and Humidity on Insects, by P. Real, 6 pp. GERMAN, per, Verhandlungen XI. Internationaler Kongress fuer Entomologie, Vol I, 1960, pp 758-762.	NIH 7-39-63
Studies on the Attracting Fraction in Queen Bees, by M. Barbier, 5 pp. GERMAN, per, Verhandlungen XI. Internationaler Kongress fuer Entomologie, Vol III, 1960, pp 82-86.	NIH 7-18-63
Investigations on the Vaccine Virus. Report VI. Electron-Microscopic Analysis of the Structure of the Elementary Body by Decomposition With Papain, by Dietrich Peters, 37 pp. GERMAN, per, Z fuer Naturforschung, Vol XIIb, 1957, pp 704-715.	NIH 7-29-63
The Sense Organ of Equilibrium of Meal Beetles Tenebrio Molitor and Yellow-Fever Mosquitoes, Ly Ulrich Bassler, 6 pp. GERMAN, per, Z fuer Naturforschung, Vol XVIb, No 4, 1961, pp 264-267.	NIH 7-40-63
Lysozyme in the Plasma and in the Leukemic Leukocytes, by D. Barbieri, M. Genesi. ITALIAN, per, Archivio Italiano di Ematologia e Sierologia, No 38, 1954, pp 891-898.	*AEC
Studies of the Hepatic Output in Man: Changes in the Hepatic Flow Produced in Digitalis, by Lidio Baschieri, Ricci Domenico, 13 pp. ITALIAN, per, Cuore e Circolazione, Vol XLI, 1957, pp 103-115.	NIH 7-7-63

Rheumatoid Symptomatology of Infantile Leukemias, by
Nedda Bidoli, 7 pp.
ITALIAN, per, Minerva Medica, Vol LIII, 1962,
pp 1053-1055.

NIH 8-9-63

Studies on the Attraction of Colors for Anopheles, by Dino Brighenti, 8 pp. ITALIAN, per, Revista de Malariologia, Vol IX, 1930, pp 224-231.

Experimental Studies of the Food Preferences of the Varieties of Anopheles Maculipennis, by Augusto Corradetti, 12 pp.

TTALLAND men Province di Malanialania Val VVI. 1077

ITALIAN, per, Revista di Malariologia, Vol XVI, 1937, pp 419-433.

NIH 7-42-63

Murexine, a New Choline Derivative of Hypobranchial Gland Extract From Murex Trunculus, Murex Brandaris and Tritonalia Erinacea, by Victor Erspamer, Frank Dordon, 6 pp.

ITALIAN, per, Ricerca Sci e Riconstruz, Vol XVI, No 8, 1946, pp 1114-1116.

Navy Tr 3566 NMS 806

Inhibitors of Polyoma Virus Hemagglutination in Normal Mouse Sera and Organs, by P. Balduzzi, S. Salmon, 14 pp.

ITALIAN, per, Lo Sperimentale, Vol CXII, No 6, 1962, pp 446-456.

NIII 7-5-63

Method of Producing a New Antitumor Substance Melanomycin, by Toju Hata, 16 pp. JAPANESE, bk, Tokoyo Koho, Patent 5,899, 1959.

NIH 7-31-63

Hemograms of Rabbits Irradiated by X-Ray and Effects of Marinamycin, by Momoe Soeda, Mamoru Mitomi, 7 pp. JAPANESE, per, Boei Eisei, Vol IX, No 5, 1962, pp 251-254.

NIH 7-32-63

Studies of Therapeutic Effects of Marinamycin for Leukopenia in Irradiated Rabbits, by Momoe Soeda, 7 pp.

JAPANESE, per, Boei Eisei, Vol IX, No 9, 1962, pp 399-402.

NIH 7-34-63

Studies of Dolphin Fishing Conditions in the Western Sea of Japan- I, III, V, VI, by Shumpei Kojima. JAPANESE, per, Bulletin of the Japanese Society of Scientific Fisheries, Vol XX, No 12; Vol XXI, No 10; Vol XXVI, No 4; Vol XXVII, No 7.

Dept of Interior SH211 E82 No 490

Studies on the Tyzzer's Disease in Mice. 1. Epizootiological Observation, by Yoshio Takagaki,
16 pp.

JAPANESE, per, Kikken Dobutsu Iho, Vol X, No 3, 1961,
pp 75-82.

NIH 7-30-63

Preventive and Therapeutic Effects of Marinamycin Against Leukopenia in X-Ray Irradiated Rabbits, by Momoe Soeda, 9 pp.

JAPANESE, per, Nihon Igaku Hoshasen Gakkai Zasshi, Vol XXII, No 3, 1962, pp 199-203.

NIH 7-33-63

Polish Medical Journal, 218 pp.

POLISH, bk, Centralny Instytut Informacji NaukowoTechnicznej i Ekonomicznej, Warsaw, 1962.

OTS 62-11066
PL-480

Treatises of the Section of Medical Sciences, 251 pp.

POLISH, bk, Rozprawy Wydzialu Nauk Medycznych, Vol I,
1957, pp 1-288. 9211331

OTS 61-11335
PL-480

The Comparative Results of Human Blood as Source of Food for Aedes Aegypti Queenslandensis Mosquitoes With the Blood of Laboratory Animals, Using the Number of Oocytes Developed From a Single Ingestion of Blood as Criterion, by M. M. J. Lavoipierre, 9 pp. SPANISH, per, Revista Iberica de Parasitologia, Vol XX, No 1, 1960, pp 23-30.

NIH 7-41-63

Longevity of Aedes Aegypti Queenslandensis Mosquitoes, Fertilized and Unfertilized, Fed With Blood or Deprived of It and Left Fasting or Provided With Water Sugar Solution, or Water and Sugar Solution, by M. M. J. Lavoipierre, 18 pp.

SPANISH, per, Revista Iberica de Parasitologia, Vol XX, No 1, 1960, pp 39-52.

NIII 7-43-63

The 1962 Achievements in Science and Technology in the Ukrainian SSR, 24 pp. UKRAINIAN, per, Dopovidi Ak Nauk Ukrain RSR, No 5, 1963.

JPRS 21058

The Scientific-Research Performance of the Ukrainian Institute of Mechanical Engineering, 12 pp. UKRAINIAN, per, Dopovidi Ak Nauk Ukrain RSR, No 9, 1963.

JPRS 21058

Nucleic Acid Content in Nerve Cells in Various Functional States, According to Data From Quantitative Cytochemical Investigations, by L. Z. Pevzner, 31 pp.
UKRAINIAN, per, Ukrain Biokhim Zhur, Vol XXXV, No 3, 1963, pp 448-477.

JPRS 20868

The Performance of the Institute of Botany of the Ukrainian Academy of Science in 1962, by V. M. Parshikov, 12 pp. UKRAINIAN, per, Ukrain Botan Zhur Vol XX, No 2, 1963, pp 115-121.

Scientific Chemistry

Principles of the Dislocation Theory, by B. K. Vul'f, K. P. Romadin, 10 pp. RUSSIAN, bk, Ariatsionnaya Metallovedeniye, 1962, pp 125-133.

JPRS 21051

The Affinity of Niobium for Oxygen, by G. A. Meyerson, T. Segorcheyanu, 10 pp. RUSSIAN, per, Atomnaya Energiya, Vol XIII, 1962, pp 597-599.

AEC-Tr-5910

Reversible Changes of pli in Solutions of Certain Organic Substances During Exposure, by A. P. Terent'yev. RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXVIII, 1949, pp 537-.

*AEC

Structural Diagram of the Nickel-Tantalum System, by I. I. Kornilov, E. N. Pylayeva, 14 pp. RUSSIAN, per, Iz Ak Nauk SSSR Inst Obshch i Neorgan, Khim Sektor Fiz-Khim Analiza, Vol XXIII, 1953, pp 110-117. 9211404

AEC-UCRL-Tr-970

Plastic Deformation Mechanism of Rhenium of Various Purities, by E. M. Savitskiy, G. E. Chuprikov, 5 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Met i Toplivo, No 6, 1962, pp 167-170.

AEC-Tr-5935

Determination of the Activity of Oxygen in Iron-Carbon-Oxygen Melts Using the E.D.C. Method, by V. P. Luzgin, A. F. Vishkarev. RUSSIAN, per, Iz Vyssh Ucheb Zaved Chern Met, Vol V, 1963, pp 44-50.

BISI 3350

Concerning the Structural Cross-Linking of Rubber Under the Influence of Polyazophenylenes, by A. A. Berlin, V. F. Drozdovskiy, et al. RUSSIAN, per, Kauchuk i Rezina, Vol XXII, No 3, 1963, p 10.

*AEC

The Chemistry of Polymers With Conjugated Bonds, by A. A. Berlin.
RUSSIAN, per, Khim Prom, No 12, 1962, pp 881-896.

*AEC

Isolation of Methylcyclopentane and Cyclohexzne From Petroleum Fractions, by Ye. M. Benashvily, 8 pp.
RUSSIAN, per, Neftekhimiya, Vol II, No 2, 1962, pp 160-163. 9669968

FTD-TT-63-563

The Thermal Conductivity of Refractory Oxides, by I. I. Vishnevskiy, 9 pp.
RUSSIAN, per, Sbornik Nauch Trudov Ukrain Nauchno Issled Inst Ogneuporov, No 3, 1960, pp 274-281.

AEC-Tr-5872

Interaction of Titanium With Hydrogen Peroxide and Oxalic Acid, by L. I. Kubovenko, E. I. Gerasenko, 5 pp.
RUSSIAN, per, Ukrain Khim Zhur, Vol XXIX, 1963, pp 255-258.

AEC-Tr-5819

Effect of Annealing of Polymer Glasses on the Temperature Dependence of the Heat Capacity in the Softening Range, by M. V. Volkenshteyn, Yu. A. Sharonov, 14 pp.
RUSSIAN, per, Vysokomolekulyarnye Soyedineniya, Vol III, No 11, 1961, pp 1739-1745. 9670069

DDC RSIC-47

A Method for Concentrating Fluorine Ions in the Analysis of Natural Waters, by M. Ya. Shapiro, V. G. Kolesnikova, 6 pp. RUSSIAN, per, Zhur Anal Khim, Vol XVIII, No 4, 1963, pp 507-509.

NIH 7-15-63

Thermodynamic Properties of Thorium Oxychloride, by Kung-fan Yen, Shao-chung Li, et al. RUSSIAN, per, Zhur Neorgan Khim, Vol VIII, No 1, 1963, pp 89-93.

*AEC

Fusibility Diagrams in the Systems LiCIO 4 - Ca(CIO₄)₂ and NaCIO₄ - Ca(CIO₄)₂ by N. V. Krivtsov, A. A. Zinov'yev, 12 pp.
RUSSIAN, per. Zhur Neorgan Khim, Vol VIII, No 1, 1963, pp 186-191. 9669966

FTD-TT-63-565

Problems Posed by the Theory of Chemical Bonds in Organic Chemistry, by Ya. K. Syrkin, 25 pp. RUSSIAN, per, Zhur Vses Khim Obshch imeni D. I. Mendeleeva, Vol VII, 1962, pp 401-410.

AEC-SCL-T-499

Method of Preparing New 2-(Arylsulfonamido)-1, 3, 5-Triazines, by Josef Matzke, 10 pp. AUSTRIAN, Patent No 183,758.

Patent Office

Process for Preparation of Novel 2-(Arylsulfonamido) -1, 3, 5,-Triazines, by Josef Matzke, 10 pp. AUSTRIAN, Patent No 199,193 (Add to 183,758).

Patent Office

Isotherms of Monatomic Substances and Their Binary Mixtures XXV. Idem of Diatomic Substances XXXI. The Compressibility of Hydrogen and Helium Gas Between 90 and 14 K., by F. P. G. A. J. van Agt, H. Kamerlingh Onnes, 15 pp.

DUTCH, per, Verslagen der Afdeeling Natuurkunde Akademie van Wetenschappen, Vol XXXIV, 1925, pp 625-637. 9686777

DDC RSIC-30

No 101, 1962, pp 641-651.

Isotherms of Diatomic Substances and Their Binary Mixtures XXXII. The Behavior of Hydrogen From the Standpoint of the Law of Equivalent States, by F. P. G. A. J. van Agt, 3 pp. DUTCH, per, Verslagen der Afdeeling Natuurkunde Akademie van Welenschappen, Vol XXXIV, 1925, pp 638-643. 9686779

DDC RSIC-46

Rapid Methods of Potentiometric Estimation on Tervalent Chromium, by J. Allard, M. Bonneymay. FRENCH, rpt, Chrome Dur, 1959-60, pp 33-39.

BISI 3332

Changes Produced in Polyamides by Chemical and/ or Physical Processes. I. Study of the Degradation Products of Secondary Diamides, by A. Cannepin, A. Baulenas. FRENCH, per, Bulletin Inst Textile de France,

GB/256/T.1506

Electrical Conductivity of Some Simple Aliphatic Amines; Effect of the Presence of Small Amounts of Water, by B. Pouyet.
FRENCH, per, Comptes Rendus Academie des Sciences, Vol CCLVI, No 3, 1963, pp 2834-3836.

*AEC

Electron Paramagnetic Resonance of a Pyrocarbon, by M. Cerutti, et al. FRENCH, per, Comptes Rendus Academie des Sciences, Vol CCLVI, No 4, 1963, pp 3029, 3030.

*AEC

Theoretical Calculation of the Total Dose. Comparison With Cs-137 With Co-60 Teletherapy, by J. M. Debois, 11 pp. FRENCH, per, Journal Belge de Radiologie, Vol XLV, 1962, pp 728-741.

AEC-Tr-5889

Thermochemical Studies of Organic Compounds Containing Fluorine, by Frederic Swarts, 83 pp. FRENCH, per, Journal de Chimie Physique, Vol XVII, 1919, pp 3-70.

AEC-UCRL-Tr-979(L)

Relations Between the Structure and Molecular Properties of High Polymers, by Geoffroy Gee. FRENCH, per, Revue Generale du Caoutchouc, Vol XXIV, No 3, 1947, pp 81-86.

*AEC

Frequency Displacements in the System Water-p-Dioxane, by Hartmut Fritzsche. FRENCH, per, Spectrochmica Acta, Vol XVII, 1961, pp 352-355.

*AEC

Newer Methods of Preparative Organic Chemistry, by Wilhelm Foerst, 417 pp. GERMAN, bk.

API

Chlorination of Uranium Oxides, by G. Jangg, W. Ochsenfeld, et al, 18 pp. GERMAN, per, Atompraxis, Vol VII, 1961, pp 332-336.

AEC-Tr-5904

Dilatometric Behaviour and Plastic Properties of a Vitrinite and Its Pyridine Extraction Products, by K. Hoehne, II. Tschamler. GERMAN, per, Brennstoff-Chemie, Vol XLIII, No 9, 1962, pp 277-279.

CRL/T 1280

The Thermal Decomposition of Hard Coals as a Function of the Particle Size. II. A Contribution to the Theory of Heating and Degasification, by H. Luther, D. Traustel.

GERMAN, per, Brennstoff-Chemie, Vol XLIV, No 3, 1963, pp 65-67.

*BISI 3356

Vapor Pressure-Isotopic Effect of Hydrogen and Boron Compounds, by I. Kiss, L. Matus, et al, 8 pp.
GERMAN, per, Kernenergie, Vol V, 1962, pp 329-331.

AEC-Tr-5913

Essentials of Renal Scintigraphy With Hg²⁰³-Salyrgan, by K. zum Winkel, K. E. Scheer, 12 pp. GERMAN, per, Nuklear-Medizin, Vol II, 1961, pp 71-79.

Navy Tr 3567 NMS 807

The Physical Manifestations of Arch Discharge and Their Meaning in Methods of Spectroscopic Investigation, by Walter Rollwagen, 32 pp. GERMAN, per, Spectrochimica Acta, No 1, 1939, pp 66-82. 9685177

Emmanuel Coll Res Lang Ctr

E-T-R-G-62-10

On the Theory of the Combustion Process, by N. Semenoff, 14 pp.
GERMAN, per, Z fuer Elektrochemie, No 2, 1928, pp 571-582. 9686776

DDC RSIC-27

The Direct Current Disruption Spark as a New Ion Source for Mass-Spectroscopic Investigation of Solid Bodies, by K. D. Schuy, H. Hintenberger. GERMAN, per, Z fuer Naturforschung, Vol XVIIIA, 1963, pp 95-97.

*AEC

Conductometric Studies of Molybdic Acids in Diluted Aqueous Solutions, by Raluca Ripan, A. Duca, 51 pp. HUNGARIAN, per, Buletin Stiintific Sectiumea de Stiinte Teknice si Chimice, Vol VI, 1954, pp 251-275.

AEC-UCRL-Tr-886(L)

Polyvinylathracene; Synthesis of Its Intermolecular Compounds and Their Electrical Conductivities, by Hiroo Inoue, Kazuo Noda, et al, 17 pp. JAPANESE, per, Kogyo Kagaku Zasshi, Voi LXV, 1962, pp 1286-1290.

AEC-SCL-T-498

Analysis of Chlorine, Carbon Monoxide and Carbon Dioxide, by Vapor Phase Chromatography, by Hiroshi Shimizu, Tomoo Kirahara, 9 pp. JAPANESE, per, Nagoya Kogyo Gijutsu Shikensho Hokoku, Vol IX, 1960, pp 453-457.

AEC-Tr-5912

Separation of Potassium Isotopes by Ion Exchange Electromigration, by Isao Aoyama, Kenji Ishida, et al.

JAPANESE, per, Nippon Genshiryoko Gakkaishi, Vol IV, 1962, pp 700-702.

AEC-Tr-5882

Zirconium Compounds. VI. Reaction Between Zirconyl Chloride and Oxalates, by Sadashige Takagi, 12 pp. JAPANESE, per, Nippon Kagaku Zasshi, Vol LXXVII, 1956, pp 1568-1572.

AEC-SCL-T-486

Furane Derivatives. Chromatographic Study of Sugars and β -keto Esters, by V. Roman. F. Aparicio. SPANISH, per, Anales de la Real Sociedad Espanola de Fisica y Quimica, Vol LB, 1954, pp 207-210.

CSIRO/No 6234

Earth Sciences & Astronomy

Selected Articles From the Russian Book Issledovaniya po Geomagnetizmui i Aeronomii, 1963.

JPRS 21073

The Constant Geomagnetic Field and Modern Objectives in Studying It, by V. I. Pochtarev, I. M. Pudovkin, et al, 12 pp, (pp 3-10).

Current Status of Research on the Constant Geomagnetic Field in Soviet Union, by V. I. Pochtarev, I. M. Pudovkin, et al, 11 pp, (pp 11-16).

The Structure and Nature of the Annual: Variation of Magnetic Activity, by V. M. Mishin, 53 pp. (pp 31-52).

Selected Articles From the Russian Book
Issledovaniya po Geomagnetizmui i Aeronomii, 1963.
(Contd)

JPRS 21073

Status of Research on Earth Currents, by V. A. Troitskaya, O. M. Barsukov, 12 pp, (pp 53-59).

Determination of the Velocities and Directions of Traveling Disturbances in the F2 Layer According to the Data of Certain Ionospheric Stations, by N. Ya. Naydenova, 8 pp, (pp 77-81).

Experience in Working at an Ionospheric Panoramic Station During the International Geophysical Year, by I. P. Popov, L. A. Dolbezhev, 5 pp, (pp 82-84).

Certain Questions Regarding the Automatic Processing of Results of Panoramic Vertical Sounding, by A. I. Galkin, 15 pp, (pp 85-90).

Concerning Certain Statistical Methods of Research on Variations in the Earth's Electromagnetic Field by N. K. Osipov, 8 pp, (pp 110-114).

Radiotelemetry, by F. I. Barsukov, M. V. Maksimov. RUSSIAN, bk, Radiotelemetriya, Moscow, 1962, 184 pp.

*FTD-TT-63-908

Report on Scientific Activities in Geomagnetism and Aeronomy in 1960-1962 Presented to the International Association of Geomagnetism and Aeronomy for the XIII General Assembly of the International Union of Geodesy and Geophysics. (DC-8876)
RUSSIAN, bk, Socbshcheniye o Nauchnykh Rabotakh po Geomagnetizmu i Aeronomii 1960-1962 gg Predstavlyayetsya v Mezhdunarodnuyu Assotsiatsiyu Geomagnetizma i Aeronomii. K. XIII General noy Assambleye Mezhdunarodnogo Geodezicheskogo i Geofizicheskogo Soyuza, Moscow, 1963, pp 3-111.

*JPRS

Determination of Atmospheric Turbidity in Various Directions by Polarimetry, by D. G. Stamov, 17 pp. RUSSIAN, bk, Trudy Aktinometriya i Atmospernaya Optika, Gidrometeorologicheskoye Izdatel stvo, Leningrad, 1961, pp 115-124. 9685418

FTD-TT-63-536

Electrometeorograph for Helicopter (VEM), by V. P. Belyayev, N. K. Vinnichenko, 19 pp. RUSSIAN, bk, Trudy Glavnaya Geofizicheskoy Observatorii imeni A. I. Voyeykova, Leningrad, No 135, 1962, pp 135-146. 9669944

FTD-TT-63-632

On the Accuracy of Radar Measuring the Altitude of Clouds, by A. M. Borovikov, V. V. Kostarev, 9 pp. RUSSIAN, bk, <u>Trudy Tsentral noy Aerologicheskoy</u> Observatorii, No 36, 1961, pp 37-42. 9686817

FTD-TT-63-539

The Novosibirsk Engineering Institute of Geodesy, Aerial Surveying and Cartography Celebrates Its Thirtieth Anniversary, by K. L. Provorov, 7 pp. RUSSIAN, per, Geodeziya i Kartografiya, No 3, 1963, pp 8-14.

JPRS 21118

Radio Emission From the Moon, the Physical State and Nature of Its Surface, by V. S. Troitskiy. RUSSIAN, per, Iz Komissii po Fiz Planet, No 3, 1961, pp 16-30.

*NASA TT F-172

The Absorption Coefficient of Atoms in the Reverse Zeeman Effect With Arbitrary Direction of Magnetic Field, by V. Ye. Stepanov, 21 pp. RUSSIAN, per, Iz Krymskoy Astrofiz Observ, Vol XVIII, 1958, pp 136-150. 9211930.

NASA TT F-110

Diurnal Temperature Variations in the Stratosphere, by L. A. Biryukova, 15 pp. RUSSIAN, per, Met i Gid, No 8, 1961, pp 3-10. 9685232

Emmanuel Coll Res Lang Ctr E-T-R-63-2

Meteorological Investigation in the Federal Republic of Germany, by K. Ya. Kondrat'yev. RUSSIAN, per, Met i Gid, No 7, 1963, pp 51-56.

*Weather Bureau

T-102

Selected Articles From the Russian Periodical Metody i Rezul'taty Podvodnykh Issledovaniy, Vol XIV, 1962.

JPRS 21162

Status and Prospects for the Development of Submarine Investigation, by B. P. Manteyfel', 11 pp, (pp 7-12).

Methods of Submarine Investigation and Their Fields of Application, by V. G. Azhazha, 6 pp, (pp 13-17).

Current Methods of Deep-Sea and Oceanic Investigations, by B. P. Zaytsev, 9 pp, (pp 18-23).

Selected Articles From the Russian Periodical Metody i Rezul'taty Podvodnykh Issledovaniy, Vol XIV, 1962. (Contd)

JPRS 21162

Results of the Direct Study of the Bottom Relief of the Inshore Zone of the Sea and Some Problems of Submarine Geomorphological Investigations, by P. A. Kaplin, A. S. Ionin, 28 pp, (pp 45-52).

Complex Study of the Bottom of Shallow Sea Water With the Help of Aeromethods, by V. V. Sharkov, Z. I. Gur'yeva, et al, 8 pp, (pp 63-68).

Observations on the Surface of the Sea Bottom for Geological Purposes, by D. Ye. Gershanovich, 9 pp, (pp 109-115).

At the Hail Cloud -- Fire!, by Vsevolod Revich, 15 pp. RUSSIAN, per, Nauka i Zhizh', No 5, 1963, pp 29-34.

JPRS 20865

Recent Investigations of the Atmosphere and Surface of Mars, by N. N. Sytinskaya, 15 pp. RUSSIAN, per, Priroda, Vol XLV, No 6, 1956, pp 33-41. 9686778

DDC RSIC-44

Fluctuation of the Southern Boundary of Polar Ice in the Laptev Sea, by T. P. Morozova, 9 pp. RUSSIAN, per, Problemy Arktiki i Antarktiki, No 1, 1959, pp 5-10.

Navy Tr 3572 HO 126

The Current Influence on the Depth of Automatic Station Recorders, by N. F. Kudryawtsev, 19 pp. RUSSIAN, per, Problemy Arktiki i Antarktiki, No 1, 1959, pp 11-23.

Navy Tr 3573 HO 127

Generation of Transverse Waves by Directed Explosions, by B. L. Kaplan, V. V. Maydrov. RUSSIAN, per, Razvedochnaia i Prom Geofiz, No 36, 1960, pp 14-23.

*AEC

The Calculation of Caspian Sea Waves and the Wind Over It, by L. N. Ikonnikova, 115 pp.
RUSSIAN, per, Trudy Gosudarst Okeanograf Inst,
Vol L, 1960, pp 54-144.

Navy Tr 3575 HO 161

Research in Climate Theory, by L. P. Rakipova, 13 pp. RUSSIAN, per, Trudy Vses Nauch Meteorol Sovesh, Vol IV, 1962, pp 52-59.

A A Company of the

The Use of Monomolecular Films for Decreasing Evaporation From a Water Surface, by V. S. Makarova, 14 pp.

RUSSIAN, per, Trudy Vses Nauch Meteorol Soveshch, Vol IV, 1962, pp 460-470.

JPRS 20782

Cosmic Mineralogy- A New Branch of Science, by D. P. Grigor'yev, 5 pp. RUSSIAN, per, Vest Ak Nauk SSSR, No 4, 1962, pp 21-24. 9211935

NASA TT F-170

The Origin of the Earth's Shells, by A. P. Vinogradov, 22 pp. RUSSIAN, per, Vest Ak Nauk SSSR, No 9, 1962, pp 16-29. 9211936

NASA TT F-171

Physical Conditions on Mars, by N. P. Barabashov, 11 pp.
RUSSIAN, per, Vest Ak Nauk SSSR, Vol XXXII, No 10, 1962, pp 18-25. 9211934

NASA TT F-165

Sand Control Research in Communist China, 750 pp. CHINESE, bk, Chih-sha Yen-chiu, No 4, Aug 1962, pp 1-278.

JPRS 20938

The Status and Future Mission of Cur Country's Gravity Survey, by Tien Cheng, 8 pp. CHINESE, per, Tse-hui T'ung-pao, No 11, 1958, pp 497-500. (Call No TA501 T92, 1958, No 11, Eng Tr)

Army Map Service

A Contribution to the Spectral Type Theory. IV. Formation of Lines in Stellar Spectra, by Jean-Claude Pecker, 54 pp. FRENCH, per, Annales d'Astrophysique, Vol XIV, No 1, 1951, pp 115-151. 9211927

NASA TT F-116

The System of Minor Planets, by Gunter D. Roth, 128 pp. GERMAN, bk.

Van Nostrand

On the Behavior of the Decay Products of Radon in the Atmosphere, by W. Jacobi, A. Schraub, 22 pp.
GERMAN, per, Beitrage zur Physik der Atmosphare, Vol XXXI, 1959, pp 244-257.

Navy Tr 3529 NRL 943

The Evaporation of Falling Drops, by N. Frossling. GERMAN, per, Gerlands Beitrage zur Geophysik, Vol LII, 1938, pp 170-216.

*AERE Harwell

1894

Precipitation Hardening During Discontinuous Precipitation, by H. Bohm.
GERMAN, per, Z fuer Metallkunde, Vol LII,
No 8, 1961, pp 512-517.

CEGB 2504

Relationship Between Vegetation and Relief, by Pal Jakucs, 18 pp.
HUNGARIAN, per, <u>Foldrajzi Ertesito</u>, Vol XI, No 2, 1962, pp 203-215.

JPRS 20888

Microclimatic Measurements on the Great Meadow (Nagymezo) of the Bukk Plateau, by Jozsef Futo, 16 pp.
HUNGARIAN, per, Foldrajzi Ertesito, Vol XI, No 4, 1962, pp 487-497.

JPRS 20806

A Study of Sediment, by Walenty Jarocki, 255 pp. POLISH, per, Ruch Rumowiska w Ciekach, No 1, 1957, pp 1-180. 9211326

OTS 60-21273

PL-480

Investigation on the Size of Drops of Overhead Irrigation, by Wladyslaw Szklarz, 13 pp.
POLISH, per, Zeszyty Naukowe Wyzszej Szkoly Rolniczej wo Wroclawiu, No 3, 1958, pp 143-155. 9211329

OTS 61-31312

PL-480

Scientific Electronics

Review of the Fundamentals of Continuous Wave Radar, by A. S. Vinitskiy. (NY-7833)
RUSSIAN, bk, Ocherk Osnov Radiolokatsii pri Nepreryvnom Uzluchenii Radiovoln, Leningrad, 1961,
495 pp.

*JPRS

Measuring the Instantaneous Rates of Flow of a Liquid by an Electro-Thermo-Anemometer and the Method of Electromagnetic Induction, by M. G. Selyaninov, 12 pp. RUSSIAN, bk, Novyye Metody Izmereniy i Pribory Dlya Gidravlicheskikh Issledovaniy, Moscow, 1961, pp 49-55.

FTD-TT-63-482

Radar Range Calculation, by Konstantin Vladimirovich Golyev, 316 pp.
RUSSIAN, bk, Raschet Dal'nosti Deystviya Radiolokatsionnykh Stantsiy, Moscow, 1962, 204 pp.

JPRS 21139

The Influence of Power Factor Improvement on Load Stability, by V. A. Venikov, 7 pp. RUSSIAN, per, <u>Elektrichestvo</u>, No 6, 1960, pp 6-10.

AEC-TRG-Inf Ser-18

Digital Computer Method for Optimization Problems in Integrated Power Systems, by V. S. Shakanov. RUSSIAN, per, Elektrichestvo, No 3, 1962, pp 9-14.

GB/125/IB 2067

Influence of an Electrical Field on Flames, by A. Ye. Potapenko, P. P. Kostenko, 7 pp. RUSSIAN, per, Inzhenerno Fiz Zhur, Vol V, No 10, 1962, pp 73-76. 9684849

FTD-TT-63-408

Scientific
Electronics (Contd)
Optical Range Finde
by S. I. Vavilova,
RUSSIAN, per, Iz Vy
Aerofotos, No 1, 19

Optical Range Finder With Semiconductor Elements, by S. I. Vavilova, K. K. Yarmarkin, 8 pp. RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Geodez i Aerofotos, No 1, 1959, pp 77-83.

ACSI I-2701 ID 2235126

The Application of Certain Propositions of Cybernetics to the Problems of Controlling the Power System Under Emergency Conditions, by Yu. B. Guk, 12 pp. RUSSIAN, per, Iz Vysshikh Ucheb Zaved Ministertva Vysshego i Srednego Spetsialnogo Obrazovaniya SSSR - Energetika, No 5, 1963, pp 1-7.

JPRS 20835

On the Possibility of Constructing a Sealed-Beam Molecular Oscillator Using ND3, NH2D, and MHD2 Molecules, by N. G. Basov, A. N. Orayevskiv. RUSSIAN, per, Iz Vysshikh Ucheb Zaved Radiofiz, Vol I, No 4, 1958, pp 63-68.

Navy Tr 3531 APL 364

Coordination of Activities in the Field of Electronic Measuring Instruments, by V. A. Normets, 6 pp. RUSSIAN, per, <u>Priborostroyeniye</u>, No 4, 1963, p 29. 9685515

FTD-TT-63-570

Coherent Radiation of Electrons in a Synchrotron in the Centimeter Wave Region, by A. M. Prokhorov. RUSSIAN, per, <u>Padiotekh i Elektron</u>, Vol I, 1956, pp 71-78.

Navy Tr 3552 APL 390

On the Doppler Effect When Moving Through a lleterogeneous Medium, by G. D. Yakovleva, O. I. Yekovlev, 11 pp.
RUSSIAN, per, Radiotekh i Elektron, Vol VIII, No 3, 1963, pp 416-424. 9669942

FTD-TT-63-673

Application of the Similarity Method to Investigate the Movements of Powerful Beams of Charged Particles in High Voltage Electrostatic Fields, by A. K. Val'ter, V. Ye. Finkel'shteyn, 9 pp. RUSSIAN, per, Uchennyye Zapiski Khar'kovskogo Universiteta, Vol VI, No 64, 1955, pp 95-100. 9686802

FTD-TT-63-514

Low-Power 110 KV Transformers and Their Use for Rural Electrification, by M. I. Sagalov. RUSSIAN, per, Vest Elektroprom, Vol XXXII, No 12, 1961.

NZDIA

Device for the Obtainment of Static Magnetic Characteristics of Ferromagnetic Materials, by V. A. Kadkiy, 5 pp. RUSSIAN, Patent No 147672, (Appl No 697260/24, 11 Feb 1961), pp 1-3. 9685394

FTD-TT-63-435

Scientific Electronics (Contd)

Calculation of the Indications of a Receiver Using Optical Amplifiers, by B. I. Stepanov, A. S. Rubanov. BELORUSSIAN, per, Dok Ak Navuk BSSR, Vol IV, No 9, 1960, pp 372-375.

Navy Tr 3544 APL 378

On the Self-Excitation Condition in a Plane-Parallel Plate, by A. M. Goncharenko, B. A. Sotskiy. BELORUSSIAN, per, Dok Ak Navuk BSSR, Vol VI, No 4, 1962, pp 223-225.

Navy Tr 3536 APL 370

Possibile and Stable States of Stationary Oscillation in a Plane-Parallel Layer, by B. I. Stepanov. BELORUSSIAN, per, Dok Ak Navuk BSSR, Vol VI, No 10, 1962, pp 629-632.

Navy Tr 3543 APL 377

Increase in Range of Surveillance Radars, by Miomir Ivanovic, Aleksander Razingar, 16 pp. CROATIAN, per, Vojnotehnicki Glasnik, No 11, 1962, pp 811-825.

ACSI I-2397-A ID 2229438

Method to Determine Optimum Correction Factors for Linear Single-Loop Control Circuit, by Karl Reinisch, 16 pp.

CZECH, bk, Souhrn Praci o Automatisaci, Nakladatelstvi Ceskoslovenske Akademie Ved, Praha, 1961, pp 19-34. 9685517

FTD-TT-63-387

Numerical Solution of a Nonstationary Random Process of Passing With Control Circuits With Nonlinear Parameters, by Jiri Benes, 22 pp. CZECI, bk, Souhrn Praci o Automatisaci, Nakladatelstvi Ceskoslovenske Akademie Ved, Praha, 1961, pp 125-147.

FTD-TT-63-387

Instrument for Measuring the Electrical Conductivity of Electrolyte Solutions, by Zdenek Solc, Karel Cermak, 6 pp.

CZECI, per, Chemicke Listy, Vol LIII, 1959, pp 847, 848.

AEC-SCL-T-490

The Development of Consistent Approximate Relationships for Unsymmetrical Short Circuits of the Synchronous Salient Pole Machine, by L. Hannakam. GERMAN, per, Archiv fuer Elektrotechnik, Vol XLV, No 2, 1960, pp 118-156.

RAE Tr No 1001

Measurement of Dielectric Losses With the A.C. Bridge, by K. W. Wagner. GERMAN, per, Elektrotechnische Zeitschrift, No 40, 1911, pp 1001, 1002.

*AERE Harwell 1904

Scientific Electronics (Contd)

A.C. Measurement of the Dielectric Leakages and Capacities of Multi-Core Cable, by K. W. Wagner. GERMAN, per, Elektrotechnische Zeitschrift, No 25, 1912, pp 635-637.

*AERE Harwell 1905

A Doppler Radar for Additional Sign-Discrimination of Velocity, by H. Rode, R. Stange. GERMAN, per, Hochfrequenz-Technik und Elektroakustik, No 1, Feb 1963, pp 25-31.

*ACSI I-3228 ID 2244414

Electrical Potential Differences Between Iron and Steel Melts and Liquid Slags, by K. F. Ludemann, H. W. Fenzke.
GERMAN, per, Neue Huette, Vol VII, No 11, 1962, pp 651-658.

BISI 3317

Experiments on the Propagation of Electromagnetic Waves Over an Absorbing Surface, by Erwin Meyer, Dietmar Eisfeld.
GERMAN, per, Z fuer Angewandte Physik, Vol XV, No 1, 1963, pp 31-39.

*Navy/NRL

Electroanalysis. Communication 5, by II. Ogino, K. Ebata, et al, 30 pp.

JAPANESE, per, Bunseki Kagaku, Vol XI, 1962, pp 21R-36R.

AEC-Tr-5880

Pulse-Compression Thermal Vacuum Gauge, by J. Groszkowski, 26 pp. POLISH, per, Archiwum Elektrotechniki, Vol X, No 3, 1961, pp 763-782. 9685397

FTD-TT-63-151

Engineering

Gyroscopic Effect, Its Phenomena and Its Application, by V. A. Pavlov. RUSSIAN, bk.

*FTD-TT-63-837

Types of Vibration Isolation Mounts, by Oleg Konstantinovich Naydenko, Pavel Petrovich Petrov, 48 pp.
RUSSIAN, bk, Amortizatsiya Sudovykh Dvigateley i Mekhanizmov, Leningrad, 1962, pp 160-199.

JPRS 210?1

Energy Properties of the Electric Welding Arc, by G. M. Tikhodeyev, 302 pp. RUSSIAN, bk, <u>Energeticheskiye Svoystva Elektricheskoy</u> <u>Svarochnoy Dugi</u>, Moscow, 1961, pp 1-254. 9686823-V

FTD-TT-62-1818

Scientific	
Engineering	(Contd)

Tricalcium Silicate and Its Solid Solutions, by A. I. Boykova, 9 pp. RUSSIAN, bk, Novoe v Khimii i Tekhnologii Tsementa, Moscow, 1962, pp 61-66.

Natl Bu Stand

Concrete Work in Maritime Structures, by A. G. Bordin. RUSSIAN, bk, Opty Stroitel'stva Novosibirskogo Gidouzla, 1960, pp 103-108.

*ACSI I-3336-A ID 2246285

Three Years of Experience in Lock Operation, by I. G. Romanov. RUSSIAN, bk, Opty Stroitel'stva Novosibirskogo Gidrouzla, 1960, pp 189-195.

*ACSI I-3336-C ID 2246285

Gropho-Tape Method of Construction of Contact, by V. N. Roginski, 22 pp.
RUSSIAN, bk, Problemy Peredachi Informatsii, Ak
Nauk SSSR, Moscow, Vol VI, 1960, pp 34-45. 9685389

FTD-TT-63-59

Lubricant - Coolant Fluids in Cutting Metals and the Technique of Their Application, by M. I. Klushin, 222 pp.

RUSSIAN, bk, Smazochno-Okhlazhdayushchiye Zhidkosti pri Rezanii Metallov i Tekhnika Primeneniya, Moscow, 1961, pp 53-97, 112-141, 168-269, 280-290.
9686824-V

FTD-TT-63-105

Shipbuilding Steel, by A. M. Veyngarten, V. A. Delle, et al. RUSSIAN, bk, Sudostroitel'naya Stal', 1962, pp 3-303.

*ACSI I-3367 ID 2246293

Air-Breathing Jet Engines, by G. Yu. Mazing. RUSSIAN, bk, <u>Vozdushno-Reaktivnyye Dvigateli</u>, 1961, 72 pp.

*FTD-TT-63-914

Pure Fluid Control Devices and the Design of Printed Pneumatic Circuits, 15 pp. RUSSIAN, per, Avtomat i Telemekhan, Vol XXIV, No 8, 1963, pp 1155-1162.

JPRS 21085

Concerning an Almost Free-Molecular Flow of Rarefied Gas Past Bodies, by R. S. Iroshnikov, 9 pp. RUSSIAN, per, Inzhenernyy Zhur, Vol I, No 3, 1961, pp 60-64. 9685400

FTD-TT-63-509

Concerning the Limits of Applicability of a Relaxation Model of Boltzmann's Kinetic Equation, by V. S. Galkin, 8 pp.

RUSSIAN, per, <u>Inzhenernyy Zhur</u>, Vol I, No 3, 1961, pp 153-156. 9685400

FTD-TT-63-509

Scientific Engineering (Contd)

Investigation of a Flow in a Discharge Arrangement, by V. N. Gusev, 9 pp. RUSSIAN, per, <u>Inzhenernyy Zhur</u>, Vol I, No 3, 1961, pp 161-165. 9685400

FTD-TT-63-509

Computer Technology in the National Economy, by K. Rudnev, 7 pp. RUSSIAN, np, <u>Izvestiya</u>, 4 Sep 1963, p 3.

JPRS 21137

Effect of the Amount of Bared Surface on Blast Indices, by Sh. I. Ibrayev, N. T. Tleuzhanov, 10 pp. RUSSIAN, per, Iz Ak Nauk Kazakhskoi SSR, Ser Gornogo Dela, No 2, 1960, pp 55-61. 9211403

AEC UCRL Tr-967(L)

Basic Problems in the Theory of Reinforced Concrete in the Next Twenty Years, by A. A. Gvozdev, 16 pp. RUSSIAN, per, Iz Ak Stroitel'stva i Arkhitektury SSSR, Vol IV, No 4, 1962, pp 3-8.

NLL Tr Bulletin Vol V No 8 1963

Advanced Method for Removing Rust From Products. RUSSIAN, per, Morskoy Flot, Vol XIX, No 6, 1959, p 47.

*Navy/ONI

Protection of Ships' Hulls Against Corrosion, 9 pp. RUSSIAN, per, Morskoy Sbornik, No 4, 1961, pp 65-71.

Navy Tr 3571 ONI 953

Paste for Cleaning Metal Surfaces From Rust and Fouling, by V. Patrikeyev, K. Arbizova. RUSSIAN, per, Morskoy Transport, Vol XXII, No 4, 1962, pp 28, 29.

*Navy/ONI

Certain Features of Supersonic Flow in Active Grids, by A. V. Gubarev, V. Ye. Deych, 14 pp. RUSSIAN, per, Nauchnyy Doklady Vysshey Shkoly, Energetika, No 2, 1958, pp 163-170. 9686815

FTD-TT-61-545

Calculation of Vortex-Free Flow Over Profile Lattices and the Construction of Lattices on the Basis of a Given Velocity Distribution at the Profiles, by L. F. Dorfman, 18 pp. RUSSIAN, per, Prik Matemat i Mekh, Vol XVI, 1952, pp 599-612. 9210852

ACSIL Tr 1328

Calculation of the Flow (or a Rotating Circular Lattice, by L. A. Dorfman, 7 pp.
RUSSIAN, per, Prik Matemat i Mekh, Vol XII, 1956, pp. 121-125. 9210853

ACSIL Tr 1330

Scientific Engineering (Contd)

Using Epoxide Resins in Shipbuilding and Ship Repairing, by I. M. Gurevich.
PUSSIAN, per, Rechnoy Transport, No 5, 1959, pp 25-27.

*Navy/ONI

Heat Hardened Carbon Steel for Shipbuilding, by N. V. Schmidt, P. M. Dontsov, 12 pp. RUSSIAN, per, Sudostroyenniye, No 9, 1962, pp 44-48.

Navy Tr 3568 ONI 915

Ocean -- A Power Station, by V. Bogoslovskiy, 9 pp. RUSSIAN, per, <u>Tekhnika Molodezhi</u>, No 1, 1963, p 37.

JPRS 20921

Explosions in Sandy Grounds, by V. M. Tsvetkov. RUSSIAN, per, Zhur Prik Mekh i Tekh Fiz, No 5, 1962, pp 150-153.

*AEC

A Pyro-Mechanism, by G. A. Rokhlin, V. M. Zas'ko, 8 pp.
RUSSIAN, Patent No 129,950 (Appl No 639728, 26 Sep 1959), pp 1, 2. 9685402

FTD-TT-61-366

Types of Engine Gasolines and Their Chemical Changes During Storage, by Bozidar Kovacic, 8 pp. CROATIAN, per, Vojnotehnicki Glasnik, No 4, 1962, pp 274-283.

ACSI 1-2449 ID 2229449

Corrosion and Erosion Wear of Power Generating Sets Operating at High Temperatures, by P. Hoch, P. Burda, 15 pp. CZECH, per, Strojirenstvi, Vol XIII, No 2, 1963, pp 121-129.

ACSI I-2707 ID 2235132

Electrical Recorder of Mechanical Values, by Josef Hosek, Frantisek Makovec, et al, 7 pp. CZECH, Patent No 95034, (Class 42e, 31/03), 15 April 1960, pp 1-5. 9685522

FTD-TT-63-75

Recommendations for Radiation-Shielding Concrete Structures, by Arvo N. Manen, S. E. Pihlajavaara. FINNISH, per, Finland Valtion Teknillinen Tutkimuslaitos Tiedotus, Vol III, No 65, 1963, pp 1-8.

*AEC

Contribution to Electron Probe Microanalysis, by M. J. Henoc, 37 pp.
FRENCH, bk, Ministere des Postes, Telegraphes et Telephones. Centre National d'Etudes des Telecommunications, No 655, 1962.

Natl Bu Stand

Scientific Engineering (Contd) Properties of Hydraulic Concretes, by L. Longechambon. FRENCH, per, Societe des Ingenieurs Civils de France, Vol CVIII, No 2, 1955, pp 138-142. **BISI 3159** Cultivating Apparatus for Broken up Soils and Method of Utilization Thereof, by Joseph Miguet, Marcel Perron, 19 pp. Patent Office FRENCH, Patent No 886,390. Commutator Tube, by Francaise Thomson-Houston, 23 pp. FRENCH, Patent No 1,186,897. Patent Office Metal-Cutting Machine Tools, by Henry G. Freeman. GERMAN, bk, Spanende Werkzeug-Maschinen, 1963. HB Reflecting Properties of Broken Ceilings, Model Studies on the Reflector Arrangement of the New Philharmonic Hall in New York, by E. Meyer, H. Kuttruff. GERMAN, per, Acustica, Vol XIII, 1963, pp 183-186. *Navy/USRL Applications of Conformal Representation to Practical Problems of Electrical Engineering, by Karl Frey. GERMAN, rpt, Arbeiten aus dem Elektrotechnischen *ACSI I-3296 Institut, 1925, pp 66-182. ID 2244437 Stability and Turbulence of Liquid Flows, by Werner Heisenberg, 57 pp. GERMAN, per, Annalen der Physik, Vol LXXIV, No 15, 1924, pp 577-627. 9669962 FTD-TT-62-1596 Degenerated Structure as a Transformation Form of Austenite Close to the State of Equilibrium, by A. Rose, H. P. Hougardy. GERMAN, per, Archiv fuer das Eisenhuttenwesen, Vol XXXIV, 1963, pp 259-267. **BISI 3298** Experiences With Steel Ram-Piles in the Foundation of Pier A of the Grain Plant at Harbor III, Bremen, by Walfram Schenck, 16 pp. ACSI I-2280-B GERMAN, per, Die Bautechnik, No 2, 1952, pp 36-41. ID 2229405 Isotopic Separation and Enrichment, Lecture Series of the Technical Methods Society of the Association of German Engineers on May 15, 1962 in the House of

CERMAN, per, Chemie Ingenieur Technik, Vol XXXIV, 1962, p 580.

Scientific Engineering (Contd)

Provisional Recommendations for the Use of Electrical Resistance Spot Welding in Steel Construction. GERMAN, per, Deutscher Ausschause fuer Stahlbau, 1962.

BISI 3383

Technical Problems Pertaining to Safety of the Savannah, by Jurgen Busch, 5 pp. GERMAN, per, Hansa, No 13, 1963.

Maritime Adm

New Data on the Investigation and Prevention of Boiler Corrosion, by K. Kovacs, 7 pp. GERMAN, per, Metalloberflache, Vol XIII, 1959, pp 167, 168. 9210851

ACSIL Tr 1323

Federal Inspection of Forests Avalanche Control in the Starting Zone; Guidelines for the Planning and Designing of Permanent Supporting Structures. GERMAN, per, Mitteilungen des Eidgenossische Institutes fuer Schneeund Lawinenforschung, No 15, 1961.

Dept of Interior GB2405 S9A3

Measurements of Rudder Moments on Ship and Model, by H. G. Hattendorff, 20 pp. GERMAN, per, Schiffstechnik, Vol VII, No 37, 1960, pp 93-106. 9210855

ACSIL Tr 1384

The Basis of Strength Calculations in the Design of Boilers, Pressure Vessels and Pipelines, Taking Into Account Plastic Deformation of Material, by E. Ulrich.

GERMAN, per, Vereinigung der Grosskesselbesitzer, Mitteilunge, No 78, No 79, 1962, pp 190-198, 245-261.

BISI 3224

Ideas on the Study of Locales and Objects in Civil Defense Fire Protection Service, by Franz Stadler, 12 pp.

GERMAN, per, VFDB Zeitschrift. Forschung und Technik im Brandschutz, Vol XII, No 2, May 1963, pp 37-44.

ACSI I-2987 ID 2240825

Heat Transfer and Boundary-Layer Formation in Sweating Construction - Materials, 50 pp. GERMAN, per, Wissenschaftliche Gesellschaft fuer Luftfahrt, 1957, pp 439-468.

ACSI I-2285 ID 2229406

The History of Concrete Techniques Viewed Through a Microscope, by G. M. Idorn. GERMAN, per, Zement und Beton, No 18, 1960, pp 1-10.

*AERE Harwell 1896

Scientific Engineering (Contd)

Concrete as a Large Building Element, by M. Schulze. GERMAN, per, Zement und Beton, No 22, 1961, pp 16-25.

GB/183

Double Emergency Brake for Heavy Motor Vehicles, Trailer-Trucks and Buses, by Guido Raimondi, 7 pp. ITALIAN, Patent No 478,826.

Patent Office

Division Mechanism for Registering Calculators With Automatic Pointing Off of the Decimal, 8 pp. ITALIAN, Patent No 564,394.

Patent Office

Process for Improving Carbon Black, by T. Isobe, M. Mizutori, 12 pp.
JAPANESE, Patent Application Pub No 36-9170, 1961.

Patent Office

Monodimensional Adiabatic Flow of a Two-Phase Medium, by Jozef Smigielski, 19 pp. POLISH, per, Polska AN, Instytut Maszyn Przeplywowych, No 10, 1962, pp 3-20. 9669955

FTD-TT-63-378

Winter Construction in Rubber Tents. SWEDISH, per, Trelleborg, No 3, 1963, pp 4, S.

*ACSI I-3315 ID 2246275

Device in Multicolor Gravure Rotary Presses for Adjustment of the Stereocylinders So As to Register Images, by A. Egli, 5 pp. SWISS, Patent No 154,531.

Patent Office

Liquid Container and Method for Its Making, by S. Scheyer, S. Arcari, 8 pp. SWISS, Patent No 194,163.

Patent Office

Fuels & Propulsion

Fuel Processing by a Dry Method. II. Study of Fluidized Alumina Beds, by M. Bourgeois, G. Manevy, 24 pp. FRENCH, rpt, Feb 1962.

AEC-Tr-5786

Scientific
Materials & Metallurgy

The second

Research on the Corrosion of Zirconium Alloys in Water and Steam at High Temperature and Pressure, by A. A. Kiselev, V. A. Myshkin, et al, 36 pp. RUSSIAN, rpt, Conference on Corrosion of Reactor Materials, Vol II, 4-8 Jun 1962, pp 67-104. 9210738

AECL-1724

Research on Wear of Metals. Effect of Residual Stress on the Abrasive Wear Resistance of Metals and on Wear in an Oxidizing Medium, by M. M. Khrushchov, M. A. Babychev. RUSSIAN, bk, Issledovaniya Iznashivaniya Metallov, Chapter XII, 1960.

NEL No 890

A Rationalized Technology for Contact Welding by Melting Steel, by A. S. Gel'man. RUSSIAN, bk, Issledovaniya po Tekhnologii Svarki, 1953, pp 104-173.

*BISI 3363

Phase Analysis of Some Alloys Difficult to Form, by N. I. Blok, N. F. Lashko, 7 pp.
RUSSIAN, bk, Khimicheskiy Kontrol' Proiz v
Metallurgicheskoy i Metalloograbatyvayushchey
Promyshelennostii, Unepropetrovskoye Knizhnoye
Izdatel'stve, 1960, pp 246-250. 9685401

FTD-TT-63-479

Metal-Polymeric Films on Friction Surfaces of Details, by M. L. Barabash, M. V. Korogodskiy, 10 pp.
RUSSIAN, bk, Plastmassy v Mashinostroyenii i Priborostroyenii, Kiev, 1961, pp 359-366. 9686826

FTD-TT-63-564

Corrosion Study V. Mechanism of Chemical Passivation and Corrosion of Metals, by M. Prazak, V. Prazak, 13 pp.
RUSSIAN, bk, Sbornik Chekoslovak Khim Rabot, Vol XXI, 1956, pp 564-570. 9685518

FTD-TT-62-1721

Selected Articles From the Russian Book Sovremennyye Voprosy Fizicheskogo Metallovedeniya, Leningrad, 1962. 9685414

FTD-TT-63-510

Behavior of Noncubic Polycrystalline Metals in Thermal Cycling, by V. A. Likhachev, 15 pp.

Two-Phase Decomposition of Solid Solutions, by P. I. Filimonov, 19 pp.

Intraphase Decomposition (K-State) and Its Significance in Presentday Alloys, by S. V. Dvanov, 14 pp.

The K-State in Alloys, by V. S. Mis'kin, 12 pp.

Perfection and Strength of Crystals, by E. M. Nadgornyy, 23 pp.

Selected Articles From the Russian Periodical Iz Vysshikh Ucheb Zaved, Chern Met.

No 9, 1962, pp 17-25.	
Effect of Gas-Phase Composition on the Reduction	
Kinetics of Fluxed Sinter, by P. N. Ostrik,	
S. T. Rostovtsev.	
No. 11 1062 177 170	

No 11, 1962, pp 133-139.

Special Features in the **Manufacture** of Thin Walled Tubes of Cold Reducing Machines, by Yu. F. Shevakin, F. S. Seidalyev.

No 2, 1963, Study of the Sources of Pulsations in Hot-Blast Pressure at the Blast-Furnace Tuyeres, by A. A. Kukarkin, B. I. Kitayev, (pp 31-38).

Conditions of Flake Formation in Steel, by D. Ya. Povolotskiy, (pp 120-128).

High Purity Refining of Silicon Tetrachloride and Trichlorosilane by the Rectification Method, by L. A. Nisel'son, 6 pp. RUSSIAN, per, Iz Vysshikh Ucheb Zaved Tsvetnaya Metallurg, No 2, 1963, pp 133-138.

How to Avoid Internal Transverse Tears During the Forging of Ingots of High-Alloy Steels and Alloys, by M. Ya. Dzugutov, B. F. Vakhtanov. RUSSIAN, per, Kuznechno-Shtampov Proiz, No 2, 1963, pp 7, 8.

Spray Coating of Automobile Engine Valves With Aluminum, by V. M. Platonov, G. P. Kreshtakova. RUSSIAN, per, Metall i Term Obra Metallov, No 5, 1963, pp 61-63.

BISI 3257

HB 5755

HB 5897

JPRS 20944

HB 5915

HB 5994

Protective Coating for Steel Ship Hulls in Sea Water, by I. Doshevskiy.

RUSSIAN, per, Morskoy Flot, Vol XV, No 8, 1955, pp 16-19.

*Navy/ONI

Materials Used in Ship Repairs & Shipbuilding, by L. Panor.
RUSSIAN, per, Morskoy Flot, Vol XXI, No 12, 1961, pp 30, 31.

*Navy/ONI

Study of Properties & Possibilities for Using Boron-Silicon-Organic Polymers as Components of Heat-Resisting Adhesives, Glues, by V. D. Solodovnik, A. B. Davydov.

RUSSIAN, per, Plasticheskiye Massy, No 3, 1963, pp 39-42.

*AID

Selected Articles From the Russian Periodical Poroshkovaya Metallurg.

Vol I, No 6, 1961, pp 55-60. Investigation of the Wetting of Graphite and Diamond by Liquid Metals and Alloys, by Yu. V. Naydich. G. A. Kolesnichenko. HB 5940

Vol II, No 5, 1962, pp 60-67. Three-Layer Copper-Iron-Copper Strip Rolled of Powders, by O. A. Katrus, G. A. Vinogradov.

HB 5999

Vol II, No 6, 1962, pp 50-53. Physical Properties of Chromium Borides, by P. S. Kislyy, et al. HB 5975

Vol III, No 1, 1963, pp 42-47. Pressing and Rolling of Metal Powders, by A. N. Nikolayev. HB 5981

Selected Articles From the Russian Periodical Rechnoy Transport.

*Navy/ONI

No 2, 1958, pp 38-40. Use of Plastics in Shipbuilding, by N. K. Chernobryvtsev.

No 3, 1960, p 56. Anticorrosive Polyvinyl Chloride Coatings of Propeller Shafts, by N. Chernobrivtsev.

No 3, 1961, pp 18-20. Adhesive in Shipbuilding & Ship Repairs, by I. Klyushenkov.

Selected Articles From the Russian Periodical Rechnoy Transport. (Contd)

*Navy/ONI

No 2, 1962, pp 27-29. Prospects for the Use of Plastics in Shipbuilding and Ship Repairs, by I. Klyushenkov.

No 4, 1962, pp 23-25. Reconditioning Lacquer Coatings of River Passenger Ships, by F. Kuz'min, I. U. Matasov.

No 4, 1962, pp 47, 48. New Anticorrosive Varnish Paint Undercoats, by I. Klyushenkov.

Continuous Casting of Killed Plain Carbon Steel Into Large Square Blooms, by N. N. Guglin. RUSSIAN, per, Stal Sbornik Statei, 1961, pp 177-193.

HB 5605

Selected Articles From the Russian Periodical Sudostroyeniye.

*Navy/ONI

Vol XXIII, No 8, 1957, p 68. Control of Ship Corrosion, by A. M. Martkovich.

Vol XXIII, No 12, 1957, pp 43-45. Ship Painting With Emulsion Paints, by E. V. Iskra.

Vol XXIV, No 5, 1958, pp 53, 54. Effect of a Red-Lead First Coat on Ethynol Coatings, by S. I. Kovaleva, E. N. Shulpenova.

Voi XXIV, No 6, 1958, pp 49, 50. Experience in Using Ethynol Paints, by G. N. Finkel.

Vol XXIV, No 9, 1958, pp 76, 77. Protection of Hull From Corrosion, by I. V. Shilov.

Vol XXV, No 6, 1959, pp 30-32. New Protective Coating for Metal Surfaces, by M. I. Mel'nik, M. N. Shil'nik.

Vol XXV, No 7, 1959, pp 68, 69. Use of Plastics in Shipbuilding.

Selected Articles From the Russian Periodical Sudostroyeniye. (Contd)

*Navy/ONI

Vol XXV, No 8, 1959, p 55. Replacement of Zinc Coatings by Paint ABI-20, by R. S. Korshun.

Vol XXVII, No 7, 1961, pp 64, 65. Mastic for Underdecks Based on Ethyl Alcohol Paint, by Ya. I. Bogoslov, K. A. Podgayskiy.

Vol XXVIII, No 8, 1962, p 45. Use of the NDK Paint, by O. K. Samilov.

The Method of Determining the Specific Losses of Cold Rolled Transformer Steel, by V. V. Druzhinin. RUSSIAN, per, Vest Elektroprom, No 5, 1959, pp 41-43.

*BISI 3388

Selected Articles From the Russian Periodical Zavod Lab.

Vol XXIX, No 5, 1963. Effect of Natural Aging of the Sample on the Spectrographic Analysis of Fluxed Iron-Lime Sinter, by I. K. Mayboroda, (pp 557, 558).

HB 5905

On the Accuracy of Ore Analysis by the Beta-Reflection Method, by V. G. Guglya, et al, (pp 579, 580).

IIB 6025

Effect of the Method Used in the Testing of Metals for Corrosion Fatigue Resistance, by G. V. Karpenko, V. T. Stepurenko, et al, (pp 583, 584).

HB 6022

Certain Applications of the Spectro-Isotope Dilution Method for Determining Gases in Metals, by A. N. Zaydel', (pp 693-695).

HB 6024

Vol XXIX, No 6, 1963, pp 695, 696. The Spectrographic Analysis of Magnesites, by E. I. Andreyev, et al. HB 6023

Development of Basic Oxygen LD Steel Plants, by J. Jicinsky. CZECH, per, Hutnicke Listy, Vol XVI, No 10, 1961, pp 704-710.	HB 5366
Some Principles Governing the Compaction of Uranium Dioxide Powders, by L. Jakesova, et al. CZECH, per, Hutnicke Listy, Vol XVIII, No 3, 1963, pp 193-196.	нв 5921
Materials for Stopper Tubes of Tundishes Used for Vacuum Degassing of Transformer Steel, by A. Eichner. CZECH, per, Hutnik, Vol XII, 1962, pp 586-590.	BISI 3342
Precipitation of Carbides in Molybdenum Steels at 650°C, by J. Cadek. CZECH, per, Sbornik Ostrave, Vol VII, No 6, 1961, pp 569-604.	*BISI 3365
Corrosion of Steels in Liquid Metals, by A. Dvorak. CZECH, per, Strojirentsvi, Vol XII, No 1, 1962, pp 39-43.	*BISI 3364
The Use of Counter Pressure in a High Capacity Blast Furnace, by P. Maertens, U. Delinge. FRENCH, rpt, Journees Internationales de Siderurgie, 1962, pp 213-229.	BISI 3027
A Theoretical Investigation Into Oil Fuel Injection at Constant Blast Temperature, by J. Michard. FRENCH, rpt, Journees Internationales de Siderurgie, 1962, pp 346-363.	BISI 3030
Magnetic Roasting of French Ore Continuous Circuit Tests at Maizieres, by M. Boucraut. FRENCH, rpt, Paper Presented to the Mixec Ore Commission 9th May 1963 (IRSID Report).	*BISI 3368
A Study of the Enrichment of Some Lorraine Ores by Magnetic Roasting, by M. Boucraut, et al. FRENCH, rpt, Paper Presented to the Mixed Ore Commission 9th May 1963 (IRSID Report).	*BISI 3367
Discontinuous Crystal Growth in Aluminum-Copper Alloys, by J. Calvet, C. Renon. FRENCH, per, Memories Scientifiques Revue Metallurgie, Vol LVII, No 5, 1960, pp 345-362.	OT 7385

The Possibility of Using N_2 as an Alloying Element, by M. Mandl.		
FRENCH, per, Memoires Scientifiques Revue Metallurgie, Vol LVII, No 8, 1960, pp 643-648.	*BISI	3370
Influence of Certain Dissolved Elements on the Rate of Solution of N ₂ in Liquid Iron, by P. Kozakewitch. FRENCH, per, Nemoires Scientifiques Revue Metallurgie, Vol LX, No 2, 1963, pp 143-156.	*BISI	3369
Selected Articles From the French Periodical Revue de Metallurgie.		
Vol LVII, 1962, pp 1055-1070. Electropolishing in Technology Possibilities and Practice, by P. A. Jacquet, 25 pp.	AEC-NI Tr-100	
Vol LX, No 1, 1963, pp 9-22. Utilization of Concentrates, by J. Astier.	*BISI	3380
Vol LX, No 2, 1963, pp 127-140. Development of Problems of Blast Furnace Refractory Products Since 1959, by J. Schoendoerffer.	*BISI	3375
Vol LX, No 3, 1963, pp 269-272. Rapid Determinations by X-Ray Diffraction of Free Lime and Free Calcium Hydroxide in Thomas Slags, by J. Hancart.	*BISI	3371
Two Examples of Nondestructive Testing of Steel Parts, by L. Beaujard, J. Mondot. FRENCH, per, Revue Universelle des Mines, Vol XVIII, No 6, 1962, pp 465-470.	HB 568	39
Technical Developments in Mill Rolls, by J. Leonard. FRENCH, per, Revue Universelle des Mines, Vol XVIII, No 12, 1962, pp 680-690.	*BISI	3353
Effect of Viscosity and Surface Tension of a Melt on Slagging, by K. H. Karsch. GERMAN, per, Archiv fuer das Eisenhuttenwesen, Vol XXXIII, 1962, pp 805-808.	•BISI	3361
On the Kinetics of Deoxidation of Steel With Aluminium, by L. von Bogdandy, W. Meyer. GERMAN, per, Archiv fuer das Eisenhuttenwesen, Vol XXXIV, 1963, pp 235-241.	BISI ;	3297
Dynamics of Pelletisation, by U. Brahny, R. Johnson. GERMAN, per, Aufbereitungs-Technik, No 5, 1963, pp 199-205.	*BISI	3372

Installations for Galvanizing Strips, Sheet Metal, Pipes and Fittings, by J. Kohlgruber. GERMAN, per, Bander, Bleche, Rohre, No 10, 1961,		
pp 500-507.	*BISI	3387
Appearance of Defects in Boiler Tubes, by R. Westhausser. GERMAN, per, Bander, Bleche, Rohre, No 4, 1963,		
pp 174-178.	*BISI	3359
Steel Tube Drawing Plant, by J. K. Bohnen. GERMAN, per, Bander, Bleche, Rohre, No 5, 1963, pp 226-232-I; No 6, 1963, pp 305-314-II.	*BISI	3373
Fundamental Reflections on the Evaluation of the Physical Properties of Blast Furnace Coke, With Special Consideration of the Factor Particle Size, by II. Hoffmann.		
GERMAN, per, Brennstoff-Chemie, Vol XLIV, No 3, 1963, pp 68-81.	*BISI	3355
Microscopic Investigations of Coking Properties of Coal, by M. Th. Mackowsky.		
GERMAN, per, Erdol und Kohle, Vol XV, No 6, 1962, pp 441-451.	*BISI	3358
Problems in the Production of Heat-Resistant Steel Castings, by H. L. Roes, H. Stein. GERMAN, por, Giesserei, Vol L, 1963, pp 202-213.	*BISI	3366
Continuous Casting of Steel, Principle, Development, Present State and Application, by B. Tarmann. GERMAN, per, Harterei-Technische Mitteilungen,	ADVCI	7704
No 1, 1962, pp 29-38.	*BISI	3384
The Compression Technique in Power Metallurgy, by P. Winterberg. GERMAN, per, Industrieblatt, Vol LXII, No 10, 1962,		
pp 623-626.	*BISI	3382
The Use of Autoradiography for Investigating the Structure of Alloys, by M. Radwan.	4.45 BB	
GERMAN, per, <u>Isotopentechnik</u> , Vol II, No 9, 1962, pp 270-275.	*AERE 1898	liarwell
Determination of Permissible Distances and Protective Glass Against Contamination of Gamma-Nomograms, by Frantisek Khol.		
GERMAN, per, Jaderna Energie, Vol VIII, No 6, 1962, pp 205, 206.	*AEC	

Submicroscopic Structure of Thin Electroplates Deposited Under Continuous Ultrasound, by C. Schiele, R. Weiner. GERMAN, per, Metalloberflache, Vol XV, No 5, 1961, pp 130-133.

HB 5987

Submicroscopic Structure of Metal Films Electrodeposited Under Pulsed Ultrasound, by C. Schiele, T. D. Sachs GERMAN, per, Metalloberflache, Vol XV, No 6, 1961, pp 165-168.

HB 5908

Ultrasonic-Resonance Thickness Measurements by Means of an Intermediate Liquid Column, by W. Leijsen.
GERMAN, per, Materialprufung, Vol IV, No 11, 1962, pp 407-410.

HB 5587

Measuring Ultrasonic Attenuation as a Means of Quality Inspection of Steel and Cast Steel Workpieces, by K. Krainer.
GERMAN, per, Materialprufung, Vol IV, 20 Dec 1962, pp 463-469.

*BISI 3378

Contribution to the Elimination of the Brittleness of Transformer Sheet, by T. Bruggemann, E. Kuntz. GERMAN, per, Neue Huette, Vol VII, No 7, 1962, pp 411-416.

*BISI 3386

Selected Articles From the German Periodical Stahl und Eisen.

Vol LXXXII, 1962. Integrated Quality Control, A New Way of Solving Old Problems, by H. Knuppel, A. Stumpf, (pp 1552-1560).

HB 5746

The Use of Chemical and Physical Methods in the Control of Sulfuric Acid and Hydrochloric Acid Pickling Baths, by G. von der Dunk, B. Neuthen, (pp 1790-1796).

HB 5802

Vol LXXXIII, 1963. Use of Pulverised Lime in the Electric Steel Plant. Pneumatic Transport as a Charging Method, by M. Haucke, H. Clees, (pp 441-449).

*BISI 3354

Selected Articles From the German Periodical Stahl und Eisen. (Contd)

Vol LXXXIII, 1963.
Determination of the Reducibility of Ores, Sinters and Pellets in a Two Stage Test, by H. Krainer, M. Wahlster, (pp 578-585).

BISI 3319

Cooling of Wide Steel Strip Coils After Annealing in a Bell-Type Furnace, by II. Wolff, R. Schneider, (pp 345-350).

HB 5893

The Effect of Soda Treatment of Pig Iron on the Nitrogen Content of Basic Bessemer Steel, by H. P. Haastert, et al, (pp 979-986).

*BISI 3381

Continuous Casting of Steel and the Planning of Continuous Casting Plants, by G. Pauels, (pp 532-539).

HB 5918

Experiences With a Reducing Mill for Hot Rolling Wire, by H. Jungk, J. Kratzer, (pp 1512-1520).

BISI 3315

On the Reactions Between Steel and Slag During Tapping and Pouring. Part I, by I. E. Becker, H. Beck.
GERMAN, per, Technische Mitteilungen Krupp, Vol XIX, No 4, 1961, pp 208-213.

HB 5554

Centrifuge for Soaking and De-Oiling Wire Coils, by F. W. Schneider. GERMAN, per, Technische Mitteilungen Krupp Forschungs-Bericht, Vol XX, No 2, 1962, pp 73-77.

*BISI 3374

Quartz-Glass, Quartz-Ware and Quartz-Type Glass as Materials in High Vacuum Technique, by W. Espe, 15 pp. GERMAN, per, Vakuum Technik, Vol IV, No 7, 1958, pp 65-77. 9210856

ACSIL Tr 1391

The Mechanism of Atmospheric Rusting of Iron, by G. Schikorr.
GERMAN, per, Werkstoffe und Korrosion, Vol XIV, 1963, pp 69-80.

BISI 3339

Studies on Dendritic Growth of Crystals, by A. Papapetrou, 40 pp. GERMAN, per, Z fuer Krist, Vol XCII, 1935, pp 96-103.

AEC-Tr-5934

Retained Austenite and Its Examination in Hardened Steel, by E. Fuchs.
HUNGARIAN, per, Kohaszati Lapok, Vol XCIV, No 2, 1961, pp 57-61.

BISI 3343

The Use of Oxygen in Open-Hearth Furnaces, by C. Violi. ITALIAN, per, Metallurgie Italiana, Vol XVIII, No 4, 1963, pp 106-110.

*BISI 3390

Sintering of Tungsten Metal Powder, by T. Yao, Y. Anekoju.

JAPANESE, per, Japan Society of Powder Metallurgy, Vol IX, No 5, 1962, pp 163-168.

*AEC

Initial Sintering of Tungsten-Relation Between Linear Shrinkage and Particle Size, Sintering Temperature, and Time, by T. Yao. JAPANESE, per, Japan Society of Powder Metallurgy, Vol IX, No 6, 1962, pp 217-221.

*AEC

Descaling Speed and Polarisation Characteristics, by Y. Harada, A. Nishikawa.

JAPANESE, per, Journal Metal Finishing Soc Japan, Vol XIII, No 12, 1962, pp 510-514.

*BISI 3357

Selected Articles From the Japanese Periodical Tetsu to Hagane.

Vol XLVI, No 10, 1960, pp 1140-1142. Reducing Conditions in the Electric Smelting of Iron Ores, by A. Murakami, et al. HB 5947

Vol XLVII, No 7, 1961, pp 891-896. Automatic Control System of a Dwight-Lloyd Sintering Machine and Recent Trends Abroad, by K. Tsujihata, S. Miyagawa, et al. HB 5278

Vol LVII, No 10, 1961, pp 1348-1350. On Widening the Applicability of Water-Cooled Basic-Oxygen LD Furnaces, by R. Scto, N. Tahata. HB 5356

Vol XLVIII, No 4, 1962, pp 645-647. On the Corrosion Resistance of Steels in Contact With Hydrogen Sulfide, by H. Ishizuka, R. Chiba. HB 6016

Vol XLVIII, No 11, 1962. Chemical Analysis of Nonmetallic Inclusions After Extraction With an Ultrasonic Drill, by K. Segawa, et al. (pp 1297-1299).

HB 5965

Selected Articles From the Japanese Periodical Tetsu to Hagane. (Contd)

Vol XLVIII, No 11, 1962. Effect of Boron, Carbon, Nickel and Chromium on the Properties of Boron Stainless Steel, Report I, by ". Nishima, (pp 1495-1496).

HB 6027

Effects of Composition and Structure on the Properties of Chrome-Nickel Stainless Steels With Special Reference to Titanium and Columbium Additions, by R. Nakagawa, et al, (pp 1500-1502).

HB 6028

Spectrographic Determination of Lanthanum and Cerium in Plain Carbon Steel, by Z. Takao, et al, (pp 1511-1513).

нв 5968

Vol XLIX, No 3, 1963. Use of Oxygen for Better Combustion in Blast-Furnace Stoves, in Conjunction With Oil Injection Into the Blast Furnace, by C. Sakai, et al, (pp 294-297).

HB 6017

Computerized Control of the End-Point Temperature in the Basic Oxygen LD Process, by Sh. Watanabe, et al, (pp 410-412).

HB 5936

Continuous Automatic Eltrasonic Inspection of Heavy Steel Plate, by J. Muraki, et al, (pp 583-585).

HB 5974

Determination of Hafnium in Steel, by K. Narita, S. Nasu, (pp 631, 632).

HB 5967

Examination of Paper, Paperboard and Fiberboard Containers, by Tadeusz Wojciechowski. POLISH, per, Opakowanie, No 2, 1963, pp 22, 23.

*ACSI I-3316 ID 2246276

Cermanic Properties of the ZrO_2 -SiO₂ System, by R. Pampuch, 22 pp. POLISH, per, Prace Instytut Hutnictwa, Vol XIII, No 52, 1961, pp 229-237. 9669946

FTD-TT-63-475

Mechanism of the Initial Stages of Sintering of Single- and Two-Component Crystalline Powders, by R. Pampuch, 20 pp. POLISH, per, Prace Instytut Hutniczych, Vol XIV, 1962, pp 75-80.

AEC-UCRL Tr-953(L)

Method of Producing an Electric Current Conducting Resistance Layer on Glass, Ceramics, Quartz Products and Other Materials Resistant to High Temperatures, by Janina Gorzynska, Ryszard Maciejewski, 6 pp. POLISH, Patent No 44,523, 4 May 1961, pp 1-3. 9686806

The second second

Preliminary Note on the Working of Free Machining Steels Starting With Galena, by V. Mazzarella. PORTUGUESE, per, Associacao Brasileira de Metals, Boletim da, Vol XIV, No 4, 1958, pp 153-180.

*BISI 3362

Vacuum Treatment of Molten Steel, by J. O. Edstrom. SWEDISH, per, <u>Jernkontorets Annaler</u>, Vol CXLVI, 1962, pp 549-679.

*BISI 3360

Quantitative Microscopic Determination of Inclusion Content of Steel, by S. Bergh. SWEDISH, per, <u>Jernkontorets Annaler</u>, Vol CXLVI, No 12, 1962, pp 924-934.

HB 5980

Surface Deformation in Hot Torsion Testing, by G. Wallquist, K. Niisson.
SWEDISH, per, Jernkontorets Annaler, Vol CXLVII, No 3, 1963, pp 319-334.

HB 5939

Reactions During Immersion of Iron Oxide Crystals in Liquid Iron at Various Temperatures, by H. Herlitz.

SWEDISH, per, Jernkontorets Annaler, Vol CXLVII, No 3, 1963, pp 348-351.

HB 5954

Mathematics & Data Processing

Large-Block Programming System, by M. A. Yakovleva, 20 pp.

RUSSIAN, bk, Trudy Matemat Inst imeni V. A. Steklova, Iz Ak Nauk SSSR, Vol LXVI, 1962, pp 4-15. 9685412

FTD-TT-63-449

Analytical Calculations on an Electronic Computer for the Solution of Certain Types of Differential Equations, by T. N. Pervozvanskaya, 13 pp. RUSSIAN, bk, Trudy Matemat Inst imeni V. A. Steklova, Iz Ak Nauk SSSR, Vol LXVI, 1962, pp 37-44. 9685412

FTD-TT-63-449

Selected Articles From the Russian Periodical Dok Ak Nauk SSSR.

Amer Math Soc

Vol LXX, 1950, pp 569-572. Impossibility of an Algorithm for the Decision Problem in Finite Classes, by B. A. Trahtenbrot.

Vol XCI, 1953, pp 737-740. Godel's Theorem and the Theory of Algorithms, by V. A. Uspenskiy. Scientific
Mathematics & Data Processing (Contd)

Selected Articles From the Russian Periodical Dok Ak Nauk SSSR. (Contd)

Amer Math Soc

Vol XCVI, 1954, pp 9-12. Unprovability of Souslin's Hypothesis Without the Aid of the Axiom of Choice in the Bernays-Mostowski Axiom System, by A. S. Esenin-Vol'pin.

Vol XCVIII, 1954, pp 885-888.
The Variation of Multivalent Functions, by S. A. Gel'fer.

Vol CVI, 1956, pp 955-958. On the Coefficient Problem for p-Valent Functions, by S. A. Gel'fer,

Vol CXIV, 1957, pp 11-13. The Stability of the Solutions of Periodic Systems of Total Differential Equations, by V. G. Egorov.

Vol CXXV, 1959, pp 974-977. The Theory of Functions of Class HB and B, by N. N Meyman.

Vol CXXIV, 1959, pp 1211-1214. The Zeros of a Class of Multiple-Valued Functions, by N. N. Meyman.

Functions in Normed Closed Algebraic Fields, by L. G. Shnirel man.
RUSSIAN, per, Iz Ak Nauk Otdel Matemat i Yestestv
Nauk Seriya Matemat, No 5, 6, 1938, pp 487-498.

*Navy/APL 277

Selected Articles From the Russian Periodical Iz Ak Nauk SSSR, Ser Matemat.

Amer Math Soc

Vol VIII, 1944, pp 3-48. On the Field of Combinatory Analysis, by V. L. Goncarov.

Vol XII, 1948, pp 57-78. On the Representation of an Even Number as the Sum of a Prime and of an Almost-Prime, by A. Renyy.

Vol XX, 1956. Second Obstructions for Cross-Sections, by V. G. Boltyanskiy, (pp 99-136). Scientific
Mathematics & Data Processing (Contd)

Selected Articles From the Russian Periodical Iz Ak Nauk SSSR, Ser Matemat. (Contd)

Amer Math Soc

Vol XX, 1956. Inequalities for the Determinant of a Matrix With a Dominant Principal Diagonal, by D. M. Koteljanskiy, (pp 137-144).

On the Arithmetic Equivalent of Analyticity of the Dirichlet L-Series on the Line Re s=1, by A. O. Gel'fond, (pp 145-166).

Vol XXI, 1957, pp 655-680. On the Existence and Uniqueness of Solutions of the Non-Stationary Problems for Flows of Non-Compressible Fluids, by A. A. Kiselev, O. A. Ladyzenskaya.

Vol XXIII, 1959. On Criteria of Algebraic Independence of Values of a Class of Integral Functions, by A. B. Sidlovskiy, (pp 35-66).

Approximation of Functions with Given Modulus of Continuity by Fourier Sums, by A. V. Efimov, (pp 115-134).

On Universal Spaces for Certain Classes of Infinite Dimensional Spaces, by M. Yu. Smirnov, (pp 185-196).

On Dimensional Properties of Infinite Dimensional Spaces, by E. G. Sklyarenko, (pp 197-212).

Topology of Toeplitz Fields, by A. L. Brudno, (pp 771-780).

Selected Articles From the Russian Periodical Matemat Sbornik.

Amer Math Soc

Vol XVII, 1945, pp 211-252. On Bases in the Space of Analytic Functions, by A. I. Markusevic.

Vol XXIX, 1951, pp 233-280. The Method of Sections in the Theory of Dynamical Systems, by E. A. Barbasin.

Vol XXXV, 1954, pp 3-20. On the General Theory of Algebraic Systems, by A. I. Mal'cev. Selected Articles From the Russian Periodical Matemat Sbornik. (Contd)

Amer Math Soc

Vol XXXVI, 1955, pp 163-168. Some Sufficient Conditions for Reality and Simplicity of the Spectrum of a Matrix, by D. M. Koteljanskiy.

Vol XXXVIII, 1956, pp 283-302. On the Dimension of Proximity Spaces, by M. Yu. Smirnov.

Vol XXXIX, 1956, pp 51-148.
The Cauchy Problem for Equations With Operator Coefficients; Mixed Boundary Value Problem for Systems of Differential Equations and Approximation Methods for Their Solution, by M. I. Visik.

Vol XLIV, 1958, pp 3-52. On Cohomologies of Spaces of Paths, by A. L. Oniscik.

Vol XLVI, 1958, pp 91-124. The Homotopy Classification of Cross Sections, by V. G. Boltyanskiy.

Vol XLVII, 1959, pp 3-16. A Characterization of the Growth of an Entire Function of Two Variables and Its Application to the Summation of Double Power Series, by V. K. Ivanov.

Vol XLVIII, 1959. On the Structure of Connected Locally Bicompact Groups, by V. M. Gluskov, (pp 75-91).

On a Class of Polynomials With Extremal Properties, by V. L. Pokrovskiy, (pp 257-276).

On the Splitting of Certain Mixed Abelian Groups, by V. S. Zuravskiy, (pp 499-508).

Vol XLIX, 1959. On Equilibrium Potential, Convex Capacity and the Uniqueness of Trigonometric Series, by K. V. Temko, (pp 109-132).

On Linear Combinations of Entire Functions, by I. F. Lohin, (pp 341-346).

A Hellinger Operator Integral, by Ju. L. Smul'jan, (pp 381-430).

Scientific
Mathematics & Data Processing (Contd)

Selected Articles From the Russian Periodical Matemat Sbornik. (Contd)

Amer Math Soc

Vol LI, 1960, pp 217-226. On Convex Capacity, by K. V. Temko.

Vol LII, 1960. On Representations of Semigroups by Partial Mappings, by E. S. Ljapin, (pp 589-596).

Expansion Into Eigenfunctions of Non-Selfadjoint Singular Differential Operators of Second Order, by V. A. Marcenko, (pp 739-788).

Tauberian Theorems With Remainder Term, by M. A. Subhankulov, (pp 823-846).

The Equivalence of Normal Algorithms and Recursive Functions, by V. K. Detlovs. RUSSIAN, per, Trudy Matemat Inst Steklov, Vol LII, 1958, pp 75-139.

Amer Math Soc

On the Constructive Interpretation of Mathematical Judgments, by N. A. Sanin. RUSSIAN, per, Trudy Matemat Inst Steklov, Vol LII, 1958, pp 226-311.

Amer Math Soc

Selected Articles From the Russian Periodical Trudy Moskov Matemat Obshch.

Amer Math Soc

Vol I, 1952, pp 187-246. On General Boundary Problems for Elliptic Differential Equations, by M. I. Visik.

Vol IV, 1955, pp 237-290. On the Asymptotic Behavior of the Spectral Function and Expansion in Eigenfunctions of the Equation $\Delta u + [\lambda - q(x_1, x_2, x_3)]u=0$.

Vol V, 1956, pp 311-351. Some Remarks on the Theory of Spherical Functions on Symmetrical Riemannian Manifolds, by F. A. Berezin, I. M. Gel'fand.

Vol VI, 1957, pp 371-463. Laplace Operators on Semisimple Lie Groups, by F. A. Berezin.

Vol VII, 1958, pp 407-412. Isomorphism of Systems of Recursively Enumerable Sets With Effective Properties, by A. A. Mucnik. Selected Articles From the Russian Periodical Trudy Moskov Matemat Obshch. (Contd)

Amer Math Soc

Vol VIII, 1959. Solution in the Large of the Cauchy Problem for a Nonstationary Plane Flow of a Viscous, Incompressible Fluid, by O. A. Ladyzenskaya, (pp 71-81).

Fundamental Solutions of Linear Partial Differential Equations With Constant Coefficients, by V. A. Borovikov, (pp 199-257).

On Transcendentality and Algebraic Independence of the Values of Some Functions, by A. B. Sidlovskiy, (pp 283-320).

Direct Decomposition in Algebraic Categories, by A. G. Kuros, (pp 391-412).

Selected Articles From the Russian Periodical Uspekh Matemat Nauk.

Amer Math Soc

Vol VI, No 3, 1951, pp 31-98.
Partially Ordered Groups and Partially Ordered Linear Spaces, by L. V. Kantorovic, B. Z. Vulih, et al.

Vol VIII, No 2, 1953, pp 7-73. Systems of Linear Inequalities, by S. N. Cernikov.

Vol VIII, No 4, 1953. On the Completeness of Systems of Analytic Functions, by S. N. Mergelyan, (pp 3-63).

A Property of Sign-Symmetric Matrices, by D. M. Koteljanskiy, (pp 163-167).

Vol X, No 1, 1955, pp 117-121. The Influence of the Gauss Transformation on the Spectrum of a Matrix, by D. M. Koteljanskiy.

Vol X, No 4, 1955, pp 3-74. Compact Global Lie Groups, by E. B. Dynkin, A. L. Oniscik.

Vol XI, No 2, 1956, pp 31-66. Probabilistic Methods in the Theory of Numbers, by I. P. Kubilyus.

Vol XI, No 4, 1956, pp 3-43. On the Weighted Approximation of Continuous Functions by Polynomials on the Entire Number Axis, by N. I. Ahyezer. Scientific Mathematics & Data Processing (Contd)

Selected Articles From the Russian Periodical Uspekh Matemat Nauk. (Contd)

Amer Math Soc

Vol XI, No 6, 1956, pp 183-202. Spectral Analysis of Non-Selfadjoint Operators, by M. A. Naymark.

Vol XII, No 1, 1957, pp 99-142. On the Theorem of Uniform Continuity, by V. A. Uspenskiy.

Vol XII, No 2, 1957, pp 185-192. Homogeneous Linear Inequalities, by S. N. Cernikov.

Vol XII, No 5, 1957. Regular Degeneration and Boundary Layer for Linear Differential Equations With Small Parameter, by M. I. Visik, L. A. Lyusternik, (pp 3-122).

The Method of Finite Differences in the Theory of Partial Differential Equations, by O. A. Ladyzenskaya, (pp 123-148).

Vol XIII, No 3, 1958. On the Mathematical Foundations of Quantum Electrodynamics, by P. K. Rasevskiy, (pp 3-110).

On a Functional Problem for Ordinary Differential Equations, by L. N. Esukov, (pp 191-196).

Vol XIII, No 4, 1958, pp 29-88. A Priority Estimate in L_p and Generalized Solutions of Elliptic Equations and Systems, by A. I. Koselev.

Vol XIII, No 5, 1958, pp 3-120. Integral Equations on a Half-Line With Kernel Depending Upon the Difference of the Arguments, by M. G. Kreyn.

Vol XIV, No 1, 1959, pp 21-85. Some Questions in the Qualitative Theory of Elliptic and Parabolic Equations, by E. M. Landis.

Vol XIV, No 2, 1959, pp 171-194. Theory of Representations and Theory of Automorphic Functions, by I. M. Gel'fand.

Vol XIV, No 3, 1959. Some Questions of Analysis and Differential Equations, by I. M. Gel'fand, (pp 3-19). Selected Articles From the Russian Periodical Uspekh Matemat Nauk. (Contd)

Amer Math Soc

Vol XIV, No 3, 1959. Investigation of the Navier-Stokes Equation for a Stationary Flow of an Incompressible Fluid, by O. A. Ladyzenskaya, (pp 75-97).

On Some Problems of Gel'fand, by Kenneth Hoffman, I. M. Singer, (pp 99-114).

Criteria for Completeness of the System of Root Vectors of a Dissipative Operator, by M. G. Kreyn, (pp 145-152).

Vol XIV, No 4, 1959, pp 121-131. On Approximation Methods in the Inverse Problem of the Quantum Theory of Scattering, by V. K. Mel'nikov.

Vol XIV, No 5, 1959, pp 97-116. Thermodynamics of Gases and Differential Equations, by S. K. Godunov.

Vol XVI, No 6, 1959, pp 105-146. A New Proof of the Consistency of Arithmetic, by I. N. Hlodovskiy.

Vol XV, No 1, 1960, pp 199-202. On the Distribution of Points of Maximum Deviation in the Approximation of Continuous Functions by Polynomials, by M. I. Kadec.

Vol XV, No 4, 1960. Ideals in Rings and Their Multiplicative Semigroups, by L. M. Gluskin, (pp 141-148).

Some Properties of Series of Functions, by Ju. F. Korobeynik, (pp 149-156).

Some Unbounded Symmetrizable Operators on Hilbert Space, by D. F. Harazov, (pp 177-184).

Vol XV, No 5, 1960, pp 143-150. Some Problems in Summation of Fourier Series of Almost Periodic Functions, by E. A. Bredihina.

Vol XV, No 6, 1960, pp 149-156. On Classes of Saturation for Certain Methods of Summation of Fourier Series of Continuous Periodic Functions, by A. H. Tureckiy. Scientific
Mathematics & Data Processing (Contd)

Selected Articles From the Russian Periodical Vest Leningrad Univ.

Amer Math Soc

Vol X, No 8, 1955, pp 29-41. Majorizing Region for the Expression $I-\ln(z\lambda f'(z)^1-\lambda/f(z)^{\lambda})$ in the Class S, by N. A. Lebedev.

Vol X, No 11, 1955. Certain Estimates for Functions Regular and Univalent in the Unit Disc, by N. A. Lebedev, (pp 3-21).

On Value Regions of Analytic Functions Represented by a Stieltjes Integral, by I. Ja. Asnevic, G. V. Ulina, (pp 32-42).

Vol XI, No 19, 1956, p 5-17; Vol XII, No 7, 1957, pp 15-44; Vol XIII, No 7, 1958, pp 14-26; Vol XIII, No 13, 1958, pp 27-34; Vol XIII, No 19, 1958, pp 5-8. Uniqueness Theorems for Surfaces in the Large, I, II, III, IV, V, by A. D. Aleksandrov.

Vol XIII, No 19, 1958, pp 9-18. Nonstationary Navier-Stokes Equations, by O. A. Ladyzenskaya.

On the Solution by the Method of Grids of the Inner Dirichlet Problem for the Laplace Equation, by E. A. Volkov. RUSSIAN, per, <u>Vychislitel naya Matematika</u>, Vol I, 1957, pp 34-61.

Amer Math Soc

Calculation in a Nonlinear Approximation of the Effect of Nonlinearity on the Light Conditions in a Plane-Parallel Layer, by A. P. Ivanov, B. I. Stepanov. BELORUSSIAN, per, Dok Ak Navuk BSSR, Vol VI, No 3, 1962, pp 147-150.

Navy Tr 3537 APL 371

A Remark on the Existence on Finite Graphs, by Vaclav Havel.

CZECi, per, Casopis pro Pestovani Matematiky, Vol LXXX, No 4, 1955, pp 477-479.

*Navy/NRL

On the Inverse Theorem of Cetaev, by Ivo Vrkoc. CZECH, per, Czechoslovak Math Journal, Vol V(80), 1955, pp 451-461.

Amer Math Soc

On the Inversion of Ljapunov's Second Theorem on Stability of Motion, by Jaroslav Kurzweil. CZECI, per, Czechoslovak Math Journal, Vol VI(81), 1956, pp 217-259, 455-484.

Amer Math Soc

Scientific
Mathematics & Data Processing (Contd)

On Conditions for the Roots of a Polynomial With Real Coefficients to Have Negative Real Parts, by Robert Meynieux.

FRENCH, per, Comptes Rendus Academii des Sciences, No 7, 8, 1962, pp 56-58.

Navy Tr 3560 APL 853

General Quadratic Mappings Represented by Rectilinear Triangle Nets, by Robert Sauer, 50 pp. GERMAN, per, Mathematische Annalen, Vol CVI, 1932, pp 722-754. 9685238

Emmanuel Coll Res Lang Ctr E-T-G-63-5

Some Remarks on Recursively Enumerable Sets, by V. A. Uspenskiy.
GERMAN, per, Z der Mathematischen Logik, Grundlagen der Mathematika, Vol III, 1957, pp 157-170.

Amer Math Soc

Practical Application of Mathematics and Computers, by Tiberiu Popovici, 5 pp.
RUMANIAN, per, Tribuna, Vol VII, No 26, 27 Jun 1963, pp 1, 8.

JPRS 21006

The Theory of Normegative and Oscillating Matrices, by D. M. Koteljanskiy. UKRAINIAN, per, Ukrain Matemat Zhur, Vol II, No 2, 1950, pp 94-101.

Amer Math Soc

The Location of the Points of a Matrix Spectrum, by D. M. Koteljanskiy. UKRAINIAN, per, Ukrain Matemat Zhur, Vol VII, 1955, pp 131-133.

Amer Math Soc

On a Certain Property and a New Definition of Generalized Almost Periodic Functions of A. S. Besicovitch, by A. S. Kovan'ko. UKRAINIAN, per, Ukrain Matemat Zhur, Vol VIII, 1956, pp 273-288.

Amer Math Soc

Scientific Nuclear Sciences and Technology

(pp 141-147).

A Scientist's Responsibility, by V. S. Yemeleyanov, 39 pp. RUSSIAN, bk.

Crosscurrents Press

Papers on the Working Meeting on the Mossbauer Effect.
RUSSIAN, rpt, Joint Institute for Nuclear Research, 1963, 195 pp.

*AEC

Selected Articles From the Russian Report Proceedings of the Conference on Large Radiation Sources in Industry, 8-12 Sep 1959.

*AEC

Vol I, 1960. Plant for the Technological Study by Irradiation of Rubber and Plastics, Employing a Cobalt-60 Radiation Source, by J. Simorda, (pp. 105-114).

Description of Radiation Sources Installed at the French Atomic Energy Commissariat, by P. Leveque,

Cobalt-60 and Caesium-137 Gamma Sources, by E. E. Kulish, G. M. Fradkin, (pp 149-162).

Some Problems of Calculation and Design of High-Activity Gamma Units, by A. V. Bibergal, N. I. Leshchinsky, et al, (pp 163-177).

Use of Microporous Nuclear Fuels as a Means of Utilizing the Kinetic Energy of Fission Products in Chemical Synthesis, by R. Coekelbergs, P. Gosselain, et al, (pp 191-221).

Effect of Gamma Radiation on Polyethyl Acrylate, by H. Hayns, V. Desreux, (pp 257-262).

Cross-Linking of P.V.A. by Gamma Radiation, by II. Dyeu, V. Desreux, (pp 341-346).

The Use of Ionizing Radiation in the Vulcanization of Silicon Rubber, by A. S. Kuz'minskiy, T. S. Nikitina, et al, (pp 347-358).

Selected Articles From the Russian Report
Proceedings of the Conference on Large Radiation
Sources in Industry, 8-12 Sep 1959. (Contd)

*AEC

Vol II, 1960 Radiochemical Chlorination of a Carbon Chain Linked to a COO-Group, by Ph. Traynard, P. Verryer, (pp 81-95).

The Prospects for the Industrial Use of Radiation-Thermal Cracking of Normal Hydrocarbons, by A. V. Topchyev, L. S. Polak, et al, (pp 131-138).

Radiochemical Synthesis of Colorants, by F. Balestic, M. Magat, (pp 149-163).

Sterilization of Medicaments by Gamma Rays, by D. Arizan, A. Constantinide, et al, (pp 261-271).

Irradiation Plant Comparative Operating Costs of Plant Using Cobalt-60 or Spect Nuclear Fuel Elements, by J. R. Puig, (pp 321-339).

Actual Problems of the Distribution of Radioisotopes and the Kinetics of Their Excretion, by Yu. I. Moskalev. RUSSIAN, rpt, Proceedings of the Scientific Meeting on Diagnosis and Treatment of Radioactive Poisoning, 15-18 Oct 1962, 1963, pp 287-306.

*AEC

Diagnosis and Treatment of a Local and Afterwards Generalized Plutonium Contamination, by J. Lafuma. RUSSIAN, rpt, Proceedings of the Scientific Meeting on Diagnosis and Treatment of Radioactive Poisoning, 15-18 Oct 1962, 1963, pp 381-385.

*AEC

Radioactive Disequilibrium and Isotopes of Thorium in Geochronology, by C. Coquema, R. Coulomb, et al. RUSSIAN, rpt, Proceedings of the Symposium on Radioactive Dating, 19-23 Nov 1962, 1963, pp 133-147.

*AEC

The Separation and Measurement of Al¹²⁶ and Be¹⁰ in Meteorites, by E. H. Crevecoeur, O. A. Schaeffer. RUSSIAN, rpt, Proceedings of the Symposium on Radioactive Dating, 19-23 Nov 1962, 1963, pp 335-341.

*AEC

Scientific
Nuclear Sciences and Technology (Contd)

Selected Articles From the Russian Report, Proceedings f the Symposium on the Treatment and Storage of High-Level Radioactive Wastes, 8-12 Oct 1962, 1963.

On the Influence of Nitrates on the Composition of Vapour Phase Over Nitric Acid Solutions, by A. N. Efimov, M. I. Zhikharev, et al, (pp 133-139).

*AEC

On the Behaviour of Radioisotopes Incorporated in Glass Blocks, by P. V. Zimakov, V. V. Kulichenko, et al, (pp 397-410).

*AEC

Solidification of Radioactive Waste Solutions, by N. E. Brezhneva, Yu. N. Golovanov, et al, (pp 441-464).

*AEC

The Heat Release From High-Activity Solid Substances in Relation to the Problem of Their Burial and Use, by P. V. Zimakov, B. S. Kolychev, et al, (pp 543-549).

*AERE Harwell 1887

Studies of Sorption and Migration of Radioactive Elements in Soils, by V. Sinitsyn, V. D. Balukova, et al, (pp 569-577).

*AEC

Lyophilic Processing of Medium-Activity Liquid Effluents, by P. Cerre, E. Mestre, (pp 579-585).

*AEC

Treatment and Packaging of Solid Waste Irradiated in Pile, by P. Cerre, E. Mestre, et al, (pp 599-619).

*AEC

Results of Calculations of Nuclear Fission According to a Liquid-Drop Model, by V. M. Strutinskiy, 44 pp. RUSSIAN, per, Akademiia Nauk SSSR, Institut Atomnoi Energii, 1963. 9211405

AEC UCRL-Tr 978

The Influence of the Structure of Hydrocarbons on the Formation of Radicals During Low-Temperature Gamma-Radiolysis in the Solid Phase, by O. L. Lependina, L. S. Polak, 6 pp. RUSSIAN, per, Neftekhimiya, Vol II, 1962, pp 68-70.

AEC-Tr-5861

Proceedings of the Tashkent Conference on the Peaceful Uses of Atomic Energy, Vol II.

RUSSIAN, per, Trudy Tashkentskoy Konferentsii po Mirnomu Ispol Zovaniye Atomnoi Energii, Vol II, 1960, 450 pp.

*AEC

Scientific
Nuclear Sciences and Technology (Conta)

Proceedings of the Tashkent Conference on the Peaceful Uses of Atomic Energy, Vol I.

RUSSIAN, per, Trudy Tashkentskoi Konferentsii po Mirnomu Ispol Zovaniyu Atomnoi Energii, Vol I, 1961, 411 pp.

*AEC

Configuration Interaction in the Carbon Atom, by A. P. Yutsis, 26 pp. RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XIX, 1949, pp 565-576. 9211931

NASA TT F-154

Generalization of the Theory of Partial Separation of Variables to Include the Case of Multivalent Atoms, by A. P. Yutsis, 22 pp.
RUSSIAN, per, <u>Zhur Eksper i Teoret Fiz</u>, Vol XXIII, 1952, pp 371-380. 9211929

NASA TT F-153

Controlled Thermonuclear Reaction, by I. P'ing. CHINESE, per, K'o-hsueh T'ung-pao, No 1, 1963, p 69.

*FTD-TT-63-915

Measurements of Flows Effected in France Using Radioactive Tracers by the Integration Method, by J. Guizerix, G. Grandclement, et al. FRENCH, rpt, Symposium on the Application of Radioisotopes in Hydrology, 5-9 Mar 1963.

*AEC

Selected Articles From the French Periodical Bulletin d'Informations Scientifiques et Techniques.

No 61, 1962.

Neutron Detectors, by J. Duchene, 13 pp, (pp 6-15).

AEC-Tr-5893

Improved Logarithmic Amplifiers and Period Meters, by J. Bourdel, 11 pp, (pp 16-23).

Application of New Electronic Techniques in Safety

AEC-Tr-5896

Application of New Electronic Techniques in Safety Systems of Atomic Reactors, by J. Furet, 20 pp, (pp 24-36).

AEC-Tr-5895

Reactivity Meter and Xenon Computer, by M. Deiss, 8 pp, (pp 46-50).

AEC-Tr-5894

Very Low Reactivity Measurement by Pseudo-Random Source Excitation, by T. E. Stern, J. Valat, et al, 16 pp, (pp 123-138).

AEC-Tr-5897

No 63, pp 83-95.

AEC-Tr-5860

Release of Fission Products of Molten or Oxidized Nuclear Fuels, by M. Laffaire, M. M. Lavie, 25 pp.

Scientific Nuclear Sciences and Technology (Contd)

Effect of Thermal Deformations of a Bloch Shell on the Nuclear Resonance in the Shell, by J. Seiden. FRENCH, per, Comptes Rendus Academie des Sciences, Vol CCLIV, No 3, 1962, pp 1774-1776.

*AEC

The Gamma Spectra and Half-Lives of Hafnium and Lutetium Isotopes 170 and 171, by Jacques Valentin, Jean-Louis Sarrouy, et al. FRENCH, per, Comptes Rendus, Academie des Sciences, Vol CCLV, 1962, p 887.

*AEC

Selected Articles From the German Periodical Atomwirtschaft, Vol VIII, No 5, 1963.

*AEC

Status and Outlook of Plasma Physics Research, by W. Heisenberg, (pp 290, 291).

International Research Into the Problems of Fusion, by L. Biermann, (pp 291-293).

Plasma Physics Research in the German Federal Republic, by H. Bartels, (pp 294-297).

The Euratom Programme of Fusion Research, by D. Palumbo, (pp 297-300).

The Euratom System for the Furtherance of Fusion Research, by H. J. Glassner, (pp 300, 301).

The Garching Institute for Plasma Physics, (pp 302-317).

Building Arrangements of the Institute for Plasma Physics, by U. Bruekel, (pp 318-320).

Power Supplies of the Institute for Plasma Physics, by K. H. Penkalla, K. H. Schmitter, et al, (pp 321-323).

The Energy Supply for the Large Theta-Pinch Experiment at Garching, by A. Knobloch, (pp 323, 324).

Fundamentals and Problems of Plasma Physics, by E. Geissler, (pp 325-328).

Selected Articles From the German Periodical Kernenergie.

Vol IV, 1961, pp 926-934.	AEC-UCRL
Effective Xenon Poisoning After Shut-Down of a	Tr-952(L)
Thermal Reactor, by P. Wenzel.	

Vol V, 1962. Separation of Boron Isotopes by Chemical Exchange, by G. M. Panchenkov, A. V. Makarov, et al, 12 pp, (pp 264-266).

AEC-Tr-5907

Phase Reversal in a Column for the Separation of Boron Isotopes by Chemical Exchange in the System Anisole - BF_3 - BF_3 , by P. Kulicke, G. Kretzschmann, et al, 8 pp, (pp 267-269).

AEC-Tr-5909

Vol VI, 1963, pp 73-76. Laboratory Study of Chlorination-Processing of Neutron-Irradiated Uranium Nuclear Fuel. Part 2. Separation by Distillation of the Chlorination Products of Reactor-Irradiated Uranium Oxide, by D. Neumann, 11 pp. AEC-Tr-5908

Shielding of Radiations From Reactor-Beam-Tubes, by S. Von Orecher, M. Oberhofer. GERMAN, per, Kerntechnik, Vol IV, No 11, 1962, pp 516, 517.

*AEC

Radiation Protection Doors of Steel, by H. Von Witte. GERMAN, per, Kerntechnik, Vol IV, No 11, 1962, pp 517, 518.

*AEC

Continuous Measurement of the Moisture Content of Ore Fines for Sinter Plants by Neutron Activation, by W. Kuhn.

GERMAN, per, Kerntechnik, Vol V, No 5, 1963, pp 207-212.

*BISI 3376

Metallic Bonding Between Uranium and Aluminum for Nuclear Reactor Fuel Elements, by G. Schneider, 9 pp.
GERMAN, per, Metall, Vol XV, 1961, pp 675-679.
9211377

AEC-Tr-5905

Heat Removal From Gas-Cooled Power Reactors, by Dieter Smidt.
GERMAN, per, Nukleonik, Vol III, No 6, 1961, pp 257-267.

*AEC

Scientific Nuclear Sciences and Technology (Contd)

Use of a Plasma-Burner as a Spectro-Chemical Excitation Source, by K. H. Neeb, W. Gebauhr, 7 pp.

GERMAN, per, Z Analytische Chemie, Vol CXC, 1962, pp 92-97.

AEC-Tr-5867

The Quantum Theory of the Atomic Nucleus, by G. Gamow, 12 pp.
GERMAN, per, Z fuer Physik, Vol LI, 1928, pp 204-212.

AEC-Tr-5915

Measurements of Environmental Radioactivity-Ispra 1960, by A. Anzani. ITALIAN, rpt, Misure de Radioattirito-Ambientale-Ispra, 1960.

*AEC

Chemical Concentration of Uranium-Bearing Minerals, by R. Gautier.
ITALIAN, per, Energie Nucleaire, No 4, 1962, pp 600-606.

*AEC

Solvent Extraction of Uranium, by W. Haegi. ITALIAN, per, Energie Nucleaire, No 5, 1963, pp 26-30.

*AEC

Physics

Optical Properties of Metals, by A. V. Sokolov. RUSSIAN, bk, 1961, 464 pp.

*FTD-TT-63-912

Investigation of the Motion of Individual Charged Particles in Corrugated Magnetic Fields, by V. M. Balebanov, V. B. Glasko, et al. RUSSIAN, rpt, 1963.

*AERE Harwell 1901

The Motion of Individual Charged Particles in a Magnetic Field With Helical Symmetry, by V. M. Balebanov, B. I. Vokov, et al. RUSSIAN, rpt, 1963.

*AERE Harwell 1902

Amplification of Shock Waves in Their Passage Through a Flame Front, by G. A. Salamandra, I. K. Sevast'yanova, 10 pp.
RUSSIAN, bk, Ak Nauk SSSR Energeticheskiy Institut, Fizicheskaya Gazodimamika, Moscow, 1963, pp 199-203. 9669943

Scientific Physics (Contd)

Pharmacology of New Sedative Materials and Their Clinical Use, by S. V. Anychkov, 199 pp. RUSSIAN, bk, Farmakologiya Novykh Sedativnykh Sredstv i Ikh Klinicheskoye Primeneniye, 1962, pp 1-228, Encl No 1 to IR 694-62, 22 Oct 1962, 5158518.

ACSI I-2226 ID 2227667

Heat Transfer on a Porous Plate in a Supersonic Stream While Gases Differing in Their Physical Properties are Being Delivered Through the Pores, by V. M. Yereshenko, 17 pp. RUSSIAN, bk, Fizicheskaya Gazodinamika i Teploobmen, 1961, pp 66-75. 9670139

FTD-TT-62-1468

Ionizing Radiation and Metabolism, by L. S. Cherkasova, K. B. Fomychenko, et al, 221 pp.
RUSSIAN, bk, Ioniziruyushcheye Izluchenize i Olmen
Veshchesto, Izdatel'stvo Ak Nauk SSSR, Nunish, 1962, pp 1-174. 9670308-V

FTD-TT-62-1575

Applied Thermodynamics and Heat Transfer, by I. I. Novikov, K. D. Voskresenskiy, 663 pp. RUSSIAN, bk, Prikladnoya Termpdinamika i Teploperedocha, Moscow, 1961, pp 1-548. 9670307-V

FTD-TT-63-17

The Change in the Magnetic Properties of Solid Inorganic Compounds in a Field of Intense γ-Radiation, by S. V. Starodubtsev, I. M. Blaumshteyn, 10 pp. RUSSIAN, bk, Trudy Vsesoyuznogo Soveshchaniya po Radiatsionnoy Khimii, IZD-VO Ak Nauk SSSR, Moscow, No 2, 1962, pp 683-687. 9686800

FTD-TT-63-424

Problems of Theoretical Seismology and Physics of the Earth's Interior, by V. A. Magnitskiy, 148 pp. RUSSIAN, bk, Voprosy Teoreticheskoi Seismologii i Fiziki Zemnykh Nedr, Moscow, No 11 (178), 1960.

OTS 63-11178 PL-480

X-Ray Spectra and the Interatomic Eond in Solid Metallike Compounds, by V. S. Neshpor, 25 pp. RUSSIAN, bk, <u>Vysokotemperaturnye Metallokeramicheskia</u> Materialy, Kiev, 1962, pp 46-74.

AEC-Tr-5873

The Vapor Pressure of Calcium and Strontium Below the Melting Points by a Tracer Technique, by Yu. A. Priselkov, An. N. Nesmeyanov, 5 pp.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol XCV, 1954, pp 1207-1210.

AEC-Tr-5911

News From Science and Technology, 5 pp.
RUSSIAN, per, Fizika v Shkole, No 1, 1957, pp 32, 33.
9669949

Scientif	fic
Physics	(Contd)

Ionization of the Upper Atmosphere by Short-Wave Solar Radiation, by G. S. Ivanov-Kholodnyy, 33 pp. RUSSIAN, per, Geomagnetizm i Aeronomiya, Vol II, No 4, 1962, pp 674-687. 9211917

Emmanuel Coll Res Lang Ctr E-T-R-63-1

Effect of the Radiant Heat Component on Heat Transfer in Vacuum Sublimation, by P. A. Novikov, 9 pp. RUSSIAN, per, Inzhenerno-Fiz Zhur, Vol V, No 12, 1962, pp 80-83. 9211932

NASA TT F-178

Symmetrical Autooscillations of a Gyrostabilizer, by S. A. Chernikov, 18 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Energet i Avtomat, No 6, 1960, pp 133-142. 9686812

FTD-TT-61-556

The Temperature Calculation of an Orthotrapic Plate With Transverse Shear Taken Into Consideration, by S. M. Durgar'yan, 12 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 6, 1962, pp 154-160. 9686799

FTD-TT-63-529

The Temperature Distribution in a Rod During Contactless Zone Recrystallization, by I. V. Milov, V. V. Okinshevich, et al, 11 pp. RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Metal i Toplivo, No 2, 1962, pp 56-62.

AEC-Tr-5884

Dielectric Properties of Insulating Materials in Gamma-Irradiation, by B. I. Vorozhtsov, V. M. Nesterov, 15 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Fiz, No 4, 1962, pp 163-170.

Navy Tr 3526

NRL 940

Influence of Radiation Reabsorption Processes on the Operation of Quantum Amplifiers and Generators, by N. G. Preobrazhenskiy.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Fiz, No 5, 1962, pp 177, 178.

Navy Tr 3553 APL 391

On a Possible Method of Measuring Concentrations of Ions, Generated by Hydroionizers, by M. I. Korsunskiy, M. B. Reznik, 7 pp.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Fiz, No 6, 1962, pp 152-156. 9669965

Scientific Physics (Contd)

Selected Articles From the Russian Periodical Iz Vysshikh Ucheb Zaved, Radiofiz.

Vol I, No 2, 1958, pp 190, 191. The Matching of the Frequencies of Quartz and Molecular Generators, by V. V. Nikitin.	Navy Tr 3561 APL 854
Vol I, No 5, 6, 1958. On the Stability of Oscillations in a Molecular Generator, by Kh. Yu. Khaldre, R. V. Khokhlov, (pp 60-65).	Navy Tr 3548 APL 384
On the Spectral Line Width of Three-Level Quantum Generator, by A. N. Malakhov, V. M. Fain, (pp 66-74).	Navy Tr 3551 APL 389
On the Theory of the Molecular Generator, by A. S. Gurtovnik, (pp 83-87).	Navy Tr 3546 APL 382
Energy Transfer in the Radiolysis of Hydrocarbons, by A. M. Brodskiy, Yu. A. Kolbanovskiy, et al, 24 pp. RUSSIAN, per, Neftekhimiya, Vol II, No 1, 1962, pp 54-67.	AEC-Tr-5900

Selected Articles From the Russian Periodical Prik Matemat i Mekh.

Vol XXVII, No 1, 1963. Effect of Concentrated Forces and Moments on a Thin Elastic Shell of Arbitrary Shape, by G. N. Chernyshev, 16 pp, (pp 126-134).	JPRS 21084
Minimum-Drag Bodies at High Supersonic Speeds, by A. L. Gonor, (pp 185-189).	*Navy/APL 276
Hypersonic Flow Past a Circular Cone at Angle of Attack, by Ya. G. Sapunkov, (pp 190-192).	*Navy/APL 278
Vol XXVII, No 3, 1963, pp 541-546. Diffraction of a Plane Hydroacoustic Wave at the Boundary of Two Elastic Plates, by D. P. Kouzov, 9 pp.	JPRS 20981

Differential Barograph With Photographic Recording of the Readings, by Yu. S. Dobrokhotov, 16 pp. RUSSIAN, per, Trudy Inst Fiz Zemli imeni O. Yu. Shmidta, Issled po Instrumental noy Gravimetrii, No 24, 1962, pp 116-123. 9685416

Experimental Research on the Evaporation Rate of a Drop of Liquid in a Stationary High-Temperature Medium, by V. M. Ivanov, Ye. V. Smirnova, 22 pp. RUSSIAN, per, Trudy Inst Gory Iskopayemykh, Novyye Metody Szhiganiya Topliv i Voprosy Teoril Goreniya, Izd Ak Nauk SSSR, Vol XIX, 1962, pp 46-58. 9685421

FTD-TT-63-520

On One Method of Numerical Solution of Certain Nonlinear Problems of Aerohydrodynamics, by A. A. Dorodnitsyn. RUSSIAN, per, <u>Trudy Vses Mathemat S'ezd</u>, Vol III, 1958, pp 447-453.

*AEC

A Simple Method of Tuning a Molecular Generator, by G. P. Lyubimov, G. M. Strakhovskiy. RUSSIAN, per, Vest Moskov Univ Seriya III Fiz Astron, No 1, 1961, pp 79-81.

Navy Tr 3547 APL 383

Kinetics of Stimulated Mossbauer Radiation, by B. V. Chirikov, 11 pp.
RUSSIAN, per, <u>Zhur Eksper i Teoret Fiz</u>, Vol XLIV, No 6,

1963, pp 2016-2022. 9670096

pp 1169-1172.

AID Report T-63-106

Thermodynamics of Electrolytes and Molecular Structure of Liquids, by M. I. Ahakh Paranov. RUSSIAN, per, Zhur Fiz Khim, Vol XXXVII, No 5, 1963,

*AEC

Selected Articles From the Belorussian Periodical Dok Ak Nauvk BSSR.

Vol V, No 11, 1961. On a Violation of the Law of Bouguer in Media With a Negative Coefficient of Absorption, by B. I. Stepanov, (pp 489-491).

Navy Tr 3545 APL 379

Accumulation and Release of Radiation Within a Plane-Parallel Layer, by B. I. Stepanov, (pp 541-544).

Navy Tr 3541 APL 375

Vol VI, No 3, 1962, pp 151-154. On the Generation Conditions in a Plane-Parallel Layer, by A. M. Samson. Navy Tr 3538 API. 372

Vol VI, No 6, 1962, pp 355-359. The Light Field Within an Unbounded Plane-Parallel Layer Under Generation Conditions, by B. I. Stepanov. Navy Tr 3542 APL 376

Vol VI, No 7, 1962, pp 418-422. The Calculation of Nonstationary Luminescence of a 3-Level Quantum Generator, by A. M. Samson, V. A. Savva. Navy Tr 3540 APL 374

Vol VI. No 10, 1962, pp 633-637. Calculation of Luminescence in a Cylinder With a Negative Coefficient of Absorption in Geometrical Optics Approximation, by A. H. Samson, Yu. I. Chekalinskaya.

Navy Tr 3539 APL 373 Scientific
Physics (Contd)

Lectures on Physical Mechanics. CHINESE, bk, K'o-hsueh Ch'u-pan-she, Peking, 1962, 397 pp. *FTD-TT-63-911

Instantaneous Observation of the Spectral Excitation Processes in the Spark, by Shou-min Wang. CHINESE, per, Acta Physica Sinica, No 18, 1962, pp 585-593.

*AEC

Injection and Accumulation of High Energy Particles in a Magnetic Mirror System, by Zheng-wu Li. CHINESE, per, Acta Physica Sinica, No 18, 1962, pp 593-599.

*AEC

On the Theory of Finite Automatons, Neuron Networks, by Miroslav Mleziva, 46 pp.
CZECH, per, Pokroky Matemat Fysiky a Astronomie,
Vol V, No 6, 1960, pp 643-668. 9685494

FTD-TT-63-332

Physical-Chemical Study of the Separation of Calcium Isotopes by Chemical Exchange Between Amalgam and Salt Solution, by P. Duie, G. Dirian, 29 pp. FRENCH, rpt, Etude Physico-Chimique de la Separation des Isotopes du Calcium par Echange Chimique Entre Amalgme et Solution Saline, 1962.

AEC-Tr-5869

Supersonic Combustion in a Cylindrical Channel, by Andre Mestre, Luisviaud. FRENCH, rpt, National Office of Aerospace Study and Research. Communication to the Agard Symposium on Supersonic Flow With Chemical Reaction and Transfer of Heat by Radiation, 1-5 Apr 1963.

*FTD-TT-63-891

Methods of Calculation of the Limited Three-Dimensional Stratum - Application to a Spindle-Shaped Body Inclined to the Wind, by E. Eichel-Brenner, A. Oudart. FRENCH, bk, Seventh Meeting of Wind Tunnel and Model Testing Panel, Jun 1955.

*FTD-TT-63-896

Internal Conversion Electron Spectra of Pm¹⁵¹ > Sm¹⁵¹ Decay, by Georges Marquier, Andree Juillard. FRENCH, per, Comptes Rendus Academie des Sciences, Vol CCLVI, 1963, p 3053.

*AEC

Effect of Ionizing Radiations Upon Aqueous Solutions of Benzoquinone and Hydroquinone, by C. Vermeil, S. Roquet, et al. FRENCH, per, Journal de Chimie Physique, Vol LX, 1963, pp 659-666.

*AERE Harwell 1885

Scientific Physics (Contd)

Multiple Coherent Scattering of Optical Resonance Radiation Applied to the 6 ³P₁ Level of Mercury. Part 1: Theory, by J. P. Barrat, 23 pp. FRENCH, per, Le Journal de Physique et le Radium, Vol XX, No 5, 1959, pp 541-548. 9211922

Emmanuel Coll Res Lang Ctr E-T-F-63-1

Multiple Coherent Scattering of Optical Resonance Radiation Applied to the 6 ^SP1 Level of Mercury. Part II: Theory, by J. P. Barrat, 37 pp. FRENCH, per, Le Journal de Physique et le Radium, Vol XX, No 6, 1959, pp 633-646. 9211923

Emmanuel Coll Res Lang Ctr E-T-F-63-2

Multiple Coherent Scattering of Optical Resonance Radiation Applied to the 6 ³P₁ Level of Mercury. Part III: Experimental Results, by J. P. Barrat, 28 pp.
FRENCH, per, Le Journal de Physique et le Radium, Vol XX, No 7, 1959, pp 657-668. 9211924

Emmanuel Coll Res Lang Ctr E-T-F-63-3

Black and White Negative Films for Aerial Photography Scope of the Convention, 8 pp. FRENCH, per, Service Technique Aeronautique, Section des Equipments, 9 Dec 1961, pp 1-7.

FTD-TT-63-108

Pressure Chamber Methods for the Measurement of Acoustical Impedances of Small Objects, Microphones in Liquids, by M. Hund, H. Kuttruff, 11 pp. GERMAN, per, Acustica, Vol XII, 1962, pp 404-410.

Navy Tr 3530 USRL 33

Behavior of Small Oscillations on Viscous Fluid Flow, by Ludwig Hopf, 56 pp. GERMAN, per, Annalen der Physik, Vol XLIV, No 9, 1914, pp 1-60. 9685493

FTD-TT-62-1597

Line Emission and Absorption of Chromium Phosphors Part II, by O. Deutschbein, 34 pp. GERMAN, per, Annalen der Physik, Vol XIV, No 5, 1932, pp 729-754. 9211918

Emmanuel Coll Res Lang Ctr E-T-G-63-18

The Zeeman Effect in the Absorption Lines of Ruby, by Hans Lehmann, 28 pp.
GERMAN, per, Annalen der Physik, Vol XIX, No 5, 1934, pp 99-117. 9211919

Emmanuel Coll Res Lang Ctr E-T-G-63-8

Line Emission and Absorption of Chromium Phosphors Part III, by Otto Deutschbein, 22 pp. GERMAN, per, Annalen der Physik, Vol XX, No 5, 1934, pp 828-842. 9685233

Emmanuel Coll Res Lang Ctr E-T-G-63-19 Scientific Physics (Contd)

Schlieren Photographs of the Temperature Field Near Exothermic Bodies, by Ernst Schmidt.

GERMAN, per, Forschung auf dem Gebiete des Ingenieurwesens, Navy Tr 3556 Vol III, Series A, Jul, Aug 1962, pp 181-189.

APL 836

Infrared-Vidicon, by W. Heimann, C. Kunze, 10 pp. ACSI I-2599 GERMAN, per, Infrared Physics, Vol II, 1962, pp 175-181. ID 2232482

Effective Steady-State Xenon Poisoning in Thermal
Reactors, by P. Wenzel, 12 pp.
GERMAN, per, Kernenergie, Vol IV, 1961, pp 775-780.

AEC UCRL
9211402
Tr-951(L)

A Transistorized Anti-Coincidence Device for Low-Level
Measurements With Geiger-Mueller-Tube Counters, by
R. Reichel, 11 pp.
GERMAN, per, Kernenergie, Vol V, 1962, pp 177-181.
AEC-Tr-5881

Electrochemical Behaviour of Stainless Chrome, Chrome-Nickel and Chrome Manganese Steels Compared to Pure Iron, by E. Maurer, 19 pp.

GERMAN, per, Korrosion und Metallschutz, Vol XV,

1939, pp 225-241. 9210850

ACSIL Tr 1320

Acoustic Properties of Flexible and Semi-Rig.d Polyurethane Foams, by II. W. Paffrath, W. Schmidt. GERMAN, per, Kunststoffe, Vol LII, No 10, 1962, pp 599-603.

The Effect of Sound Field Interference on Flaw
Detection in Solids, by F. Linhardt.
GERMAN, per, Metall, Vol XII, 1958, pp 1085-1092. *Navy/USRL

The Bauschinger Effect and Its Practical Applications, by W. Spath.

GERMAN, per, Metallwissenschaft und Technik, Vol VIII,

No 1, 2, 1954, pp 25-29.

The Lowest Characteristic Energy Loss of 25 kev Electrons as a Function of the Layer Thickness During Irradiation of Thin Ag-Layers, by A. Otto, W. Steinmann, 6 pp.
GERMAN, per, Physica Status Solidi, Vol II, 1962, pp K187-191.

Measurement of the Sound Output With the Aid of the Sound Radiation Pressure, by Paul Rieckman. GERMAN, per, Z fuer Instrumentenkunde, Vol LXV, No 11, 1957, pp 217-220.

AEC-Tr-5876

*AEC

*AEC

*Navy/NRL

Scientific Physics (Contd)

An Extension of the Law of Blondel and Rey, by Joachim Katz. GERMAN, per, Z fuer Naturforschung, Vol VIa, No 9, 1951, pp 515, 516.

*Navy/NRL

Spectrometry of Electron Interference I. Electron Optical Patterns for Velocity Analysis, by F. Leonhard, 25 pp. GERMAN, per, Z fuer Naturforschung, Vol IXa, 1954, pp 727-734. 9686857

DDC RSIC-42

Spectrometry of Electron Interference II. Evaluation of the Interference Spectrograms and a Comparison With the Theory, by F. Leonhard, 52 pp. GERMAN, per, Z fuer Naturforschung, Vol IXa, 1954, pp 1019-1031. 9686856

DDC RSIC-43

On the Zero Point Entropy of Condensed Gases, by A. Eucken, F. Fried, 42 pp. GERMAN, per, Z fuer Physik, Vol XXIX, 1924, pp 36-70. 9685780

DDC RSIC-28

Investigation of Anomalous Dispersion in Excited Gases, by R. Ladenburg. GERMAN, per, Z fuer Physik, Vol XLVIII, Part I, 1928, p 15.

Navy Tr 3559 APL 852

The Temperature and Pressure Effect on Electron Terms in Crystals, by II. K. Paetzold, 28 pp. GERMAN, per, Z fuer Physik, Vol CXXIX, 1951, pp 123-139. 9685241

Emmanuel Coll Res Lang Ctr E-T-G-63-9

Thermal Analysis, by Hiroshi Suga, Shuzo Seki, 8 pp. JAPANESE, per, Bunseki Kagaku, Vol XI, 1962, pp 47R-50R.

AEC-Tr-5929

The Present State of Phonetic Research, by Osamu Fujimura, 39 pp. JAPANESE, per, Journal of the Physical Society of Japan, Vol XVII, No 3, 1962, pp 171-184. 9211925

Emmanuel Coll Res Lang Ctr E-T-J-63-1

Experimental Study on the Penetration of 60 Co Gamma-Ray Through Finite Heterogeneous Media, by Hiroji Mochizuki, Yoshihisa Tanaka, et al. JAPANESE, per, Nippon Genshiryoki Gakkaishi, Vol IV, No 10, 1962, pp 703-707.

On the Analysis and Interpretation of Foil Data, by Akira Furuhashi. JAPANESE, per, Nippon Genshiryoki Gakkaishi, Vol IV, No 11, 1962, pp 797-807.

Scientific Physics (Contd)

A Method of Calculating Retardation Temperature in a Hypersonic Wind Tunnel With Movable Piston and Remarks on the Planning of Such Wind Tunnel, by Wiktor Jungowski, 18 pp.
POLISH, per, Archiwum Budowy Maszyn, Vol IX, No 3, 1962, pp 399-411. 9685395

FTD-TT-63-312

Modifications of Proteins of Lyophilized Gluten Treated by Gamma Irradiation. Part II, by A. R. Deschreider, 16 pp. POLISH, per, Przetworstwa Przechowalnichtwa Zboz, Vol V, No 2, 1961, pp 29-34.

AEC-Tr-5797

Vibrations and Stability of a Ribbed Cylindrical Shell in a Flow of Compressible Liquid, by B. M. Bublik, 6 pp. UKRAINIAN, per, Dopovidi Ak Nauk Ukrain RSR, No 2, 1963, pp 178-183. 9685512

FTD-TT-63-647

On a New Possible Mechanism of Recombination in Semiconductors, by M. K. Sheynkman, 5 pp. UKRAINIAN, per, Ukrain Fiz Zhur, Vol VII, No 12, 1962, pp 1364, 1365. 9685393

FTD-TT-63-507

Effect of a Magnetic Field on Phenomena in a Diode With Gesium Vapors, by N. D. Morgulis, Yu. I. Chutov, 16 pp.
UKRAINIAN, per, Ukrain Fiz Zhur, Vol VII, No 9, 1963, pp 1003-1012. 9686801

FTD-TT-63-351

Miscellaneous

Cybernetics, Automation and Telemechanics, by A. V. Khramogo. RUSSIAN, bk, Kibernetika, Avtomatika i Telemekhanika, Moscow, Vol IV, 1962, 356 pp.

*FTD-TT-63-681

Group Code Theory, by N. B. Demidovich, 28 pp. RUSSIAN, bk, Problemy Kibernetiki, Moscow, No 5, 1961, pp 105-121. 9669963

FTD-TT-63-544

Application of the Hadamard Matrix to a Single Problem of Coding, by V. I. Levenshteyn, 21 pp. RUSSIAN, bk, Problemy Kibernetiki, Moscow, No 5, 1961, pp 123-136. 9669963

FTD-TT-63-544

Basic Results of the Scientific Activity of the Academy of Sciences of the Latvian SSR for 1962, by K. Plaude, 19 pp.
RUSSIAN, per, Iz Ak Nauk Latviyskoy SSR, No 3, 1963, pp 3-14.

JPRS 20957

Scientific Miscellaneous (Contd)

News of the Academy of Sciences USSR Department of Technical Sciences Technical Cybernetics, by B. N. Petrov, 306 pp. RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Tekh Kibernet, No 3, 1963, pp 1-208.	JPRS	21100
Greater Effectiveness in Scientific Research, by M. Raman, 9 pp. RUSSIAN, per, Nauka i Tekhnika, No 1, 1963, pp 3, 4.	JPRS	20957
Improving the Organization of Scientific-Information Activities in the Country and the Tasks of the VINITI, by N. B. Arutynov, 9 pp. RUSSIAN, per, Nauch-Tekh Informat, No 2, 1963, pp 3-6.	JPRS	20860
Legal Aspects of Scientific Research and Experimental Design Work, by A. S. Pribluda, 10 pp. RUSSIAN, per, Sovet Gosudarstvo i Pravo, No 1, 1958, pp 27-34.	JPRS	21055
The Trace Elements Work Conference, 6 pp. CHINESE, per, T'u-jang Hsueh-pao, Vol II, No 1, Mar 1963, pp 109, 110.	JPRS	21090
New Doctors and Candidates and the 1963 Kossuth- Prize Winners, 6 pp. HUNGARIAN, per, Magyar Tudomany, No 4, 1963, pp 290-292.	JPRS	20869
Opening Address, by Istvan Rusznyak, 101 pp. HUNGARIAN, per, Magyar Tudomany, No 5, 1963, pp 301-365.	JPRS	21151
Technical Cybernetics and Control Machines Self-Improving Cybernetic Automatic Control Systems Capable of Learning, by O. H. Ivakhnenko. UKRAINIAN, per, Avtomatyka, No 4, 1959, pp 1-24.	DSIR	RTS 1967

INFORMATION RECEIVED DURING SEPTEMBER

ON COVER-TO-COVER TRANSLATIONS

Acta Mathematica Sinica, Vol XII, No 4, 1962.

Amer Math Soc

Avtomatika i Telemekhanika, Vol XXIII, No 12, 1962.

ISA

Byulleten' Eksperimental'noi Biologii i Meditsiny, Vol LIV, No 7, 8, 1962.

СВ

Doklady Akademii Nauk SSSR, Vol CXLIX, No 1-3, 1963.

Amer Inst of Phys Sov Phys-Dok Vol VIII, No 3

Fizika Tverdogo Tela, Vol V, No 1-3, 1963.

Amer Inst of Phys Sov Phys - Solid State

Vol V, No 1-3

Geokhimiya, No 10, 1962.

Geochem Soc

Izvestiya Akademii Nauk SSSR, Otdelenie Khimicheskikh Nauk, No 11, 1962.

CB

Kristallografiya, Vol VIII, No 2, 1963.

Amer Inst of Phys Sov Phys - Crystal Vol VIII, No 2

Tsvetnye Metally, Vol III, No 5, 1962.

PS

** Vestnik Svyazi, No 8, 1963. (NY-7816)

*JPRS

Voyennyy Vestnik, No 6, 1963.

ACSI I-1614-F ID 2201421

Zhurnal Analiticheskoi Khimii, Vol XVI Νο δ, 1962.

CB

Zhurnal Eksperimental'noi i Teoreticheskoi Fiziki, Vol XLIV, No 3, 1963.

Amer Inst of Phys Sov Phys - JETP Vol XVII, No 3

Zhurnal Tekhnicheskoi Fiziki, Vol XXXIII, No 3, 4, 1963.

Amer Inst of Phys Sov Phys - Tech Phys Vol VIII, No 3-4

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A translation of BYULLETEN' EKSPERIMENTAL'NOI BIOLOGII I MEDITSINY, a publication of the Academy of Medical Sciences of the USSR

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* * *

UNCLASSIFIED
Central Intelligence Agency



7 September 2004

Ms. Roberta Schoen
Deputy Director for Operations
Defense Technical Information Center
7725 John J. Kingman Road
Suite 0944
Ft. Belvoir, VA 22060

Dear Ms. Schoen:

In February of this year, DTIC provided the CIA Declassification Center with a referral list of CIA documents held in the DTIC library. This referral was a follow on to the list of National Intelligence Surveys provided earlier in the year.

We have completed a declassification review of the "Non-NIS" referral list and include the results of that review as Enclosure 1. Of the 220 documents identified in our declassification database, only three are classified. These three are in the Release in Part category and may be released to the public once specified portions of the documents are removed. Sanitization instructions for these documents are included with Enclosure 1.

In addition to the documents addressed in Enclosure 1, 14 other documents were unable to be identified. DTIC then provided the CDC with hard copies of these documents in April 2004 for declassification review. The results of this review are provided as Enclosure 2.

We at CIA greatly appreciate your cooperation in this matter. Should you have any questions concerning this letter and for coordination of any further developments, please contact Donald Black of this office at (703) 613-1415.

Sincerely,

Mancy Later Scrifer Sergio N. Alcivar

Chief, CIA Declassification Center, Declassification Review and Referral

Branch

Enclosures:

- 1. Declassification Review of CIA Documents at DTIC (with sanitization instructions for 3 documents)
- 2. Declassification Status of CIA Documents (hard copy) Referred by DTIC (with review processing sheets for each document)



Processing of OGA-Held CIA Documents



The following CIA documents located at DTIC were reviewed by CIA and declassification guidance has been provided.

OGA Doc ID Job Num Box Fidr Doc	mn qop	Box	Fldr		Doc	Document Title	Pub Date Pages	Jages	Decision	Proc Date
AD0834364	78-03109A	52	1	9	62	Consolidated Translation Survey For February 1963	2/1/1963	232	Approved For Release	3/25/2004
AD0402915	78-03109A	52	-	7	63	Consolidated Translation Survey For March 1963	3/1/1963	314	Approved For Release	3/25/2004
AD0405169	78-03109A	52	-	8	64	Consolidated Translation Survey For April 1963	4/1/1963	278	Approved For Release	3/25/2004
AD0409473	78-03109A	52	-	6	65	Consolidated Translation Survey For May 1963	5/1/1963	358	Approved For Release	3/25/2004
AD0413153	78-03109A	53	-	-	99	Consolidated Translation Survey For June 1963	6/1/1963	361	Approved For Release	3/25/2004
AD0414818	78-03109A	53	-	2	29	Consolidated Translation Survey For July 1963	7/1/1963	249	Approved For Release	3/25/2004
AD0418328	78-03109A	53		က	89	Consolidated Translation Survey For August 1963	8/1/1963	324	Approved For Release	3/25/2004
AD0834365	78-03109A	53		4	69	Consolidated Translation Survey For September 1963	9/1/1963	193	Approved For Release	3/25/2004
AD0423936	78-03109A	53	-	2	70	Consolidated Translation Survey For October 1963	10/1/1963	232	Approved For Release	3/25/2004
AD0426736	78-03109A	23	-	9	71	Consolidated Translation Survey For November 1963	11/1/1963	298	Approved For Release	3/25/2004
AD0428566	78-03109A	53	-	7	72	Consolidated Translation Survey For December 1963	12/1/1963	298	Approved For Release	3/25/2004
AD0431011	78-03109A	53	-	80	73	Consolidated Translation Survey For January 1964	1/1/1964	273	Approved For Release	3/25/2004
AD0433215	78-03109A	53	-	ნ	74	Consolidated Translation Survey For February 1964	2/1/1964	200	Approved For Release	3/25/2004
AD0437984	78-03109A	24	-	-	75	Consolidated Translation Survey For March 1964	3/1/1964	305	Approved For Release	3/25/2004
AD0440831	78-03109A	54	-	2	92	Consolidated Translation Survey For April 1964	4/1/1964	155	Approved For Release	3/25/2004
AD0442174	78-03109A	54	-	ဗ	77	Consolidated Translation Survey For May 1964	5/1/1964	249	Approved For Release	3/25/2004
AD0443106	78-03109A	24	-	4	78	Consolidated Translation Survey For June 1964	6/1/1964	191	Approved For Release	3/25/2004
AD0444756	78-03109A	54	-	2	79	Consolidated Translation Survey For July 1964	7/1/1964	169	Approved For Release	3/25/2004
AD0447557	78-03109A	54	-	9	80	Consolidated Translation Survey For August 1964	8/1/1964	153	Approved For Release	3/25/2004
AD0450482	78-03109A	24		7	81	Consolidated Translation Survey For September 1964	9/1/1964	141	Approved For Release	3/25/2004
AD0451428	78-03109A	54	-	8	82	Consolidated Translation Survey For October 1964	10/1/1964	149	Approved For Release	3/25/2004
AD0453181	78-03109A	54	-	6	83	Consolidated Translation Survey For November 1964	11/1/1964	157	Approved For Release	3/25/2004
AD0455133	78-03109A	54	-	10	84	Consolidated Translation Survey For December 1964	12/1/1964	121	Approved For Release	3/25/2004
AD0456859	78-03109A	24	-	Ξ	85	Consolidated Translation Survey For January 1965	1/1/1965	179	Approved For Release	3/25/2004
AD0458780	78-03109A	54	-	12	98	Consolidated Translation Survey For February 1965	2/1/1965	161	Approved For Release	3/25/2004
AD0461501	78-03109A	25	-	-	87	Consolidated Translation Survey For March 1965	3/1/1965	301	Approved For Release	3/25/2004